

S/M No. : WF200KR001

Service Manual

Auto Washer

Model: DWF-270TAP

DWF-260KR/KA/KW

• **Caution:**

In this Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL(Parts Price List) in Service Information Center (<http://svc.dwe.co.kr>).

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Contents

1. SPECIFICATIONS	2
2. STRUCTURE OF THE WASHING MACHINE	3
3. DIRECTIONS FOR INSTALLATION AND USE	4
INSTALLATION OF THE UNDER BASE COVER	4
HOW TO INSTALL ON AN INCLINED PLACE	4
HOW TO CONNECT THE INLET HOSE	5
HOW TO CLEAN THE FILTER	6
4. FEATURE AND TECHNICAL EXPLANATION	7
FEATURE OF THE WASHING MACHINE	7
WATER CURRENT TO ADJUST THE UNBALANCED LOAD	7
AUTOMATIC WATER SUPPLY SYSTEM FOR BLANKET WASH	7
FUNCTION PRINCIPLE OF BUBBLE WASHING MACHINE	8
AUTOMATIC DRAINING TIME ADJUSTMENT	8
AUTOMATIC UNBALANCE ADJUSTMENT	9
CIRCULATING-WATER COURSE AND LINT FILTER	9
LINT FILTER	10
RESIDUAL TIME DISPLAY	10
DRAIN MOTOR	10
GEAR MECHANISM ASS'Y	11
5. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT	12
GEAR MECHANISM ASS'Y REPLACEMENT	12
MOTOR SYNCHRONOUS AND VALVE REPLACEMENT	14
6. THE REPAIR METHOD OF GEAR MECHANISM FOR CLUTCH	
SPRING PROBLEM	15
THE STRUCTURE OF GEAR MECHANISM	15
HOW TO CHECK THE CLUTCH SPRING PROBLEM	16
THE PROCESS OF DISASSEMBLE	17
THE PROCESS OF ASSEMBLE	19
REPLACE THE CASE FILTER ASSY	21
7. TROUBLE SHOOTING GUIDE	22
CONCERNING WATER SUPPLY	22
CONCERNING WASHING	23
CONCERNING DRAINING	24
CONCERNING SPINING	25
CONCERNING OPERATING	26
8. PRESENTATION OF THE P.C.B ASS'Y	27
APPENDIX	
WIRING DIAGRAM	28
PARTS DIAGRAM	31
PARTS LIST	35
CIRCUIT DIAGRAM	38

1. SPECIFICATIONS

NO.	ITEM		DWF-200KR/KA/KW		DWF-270TAP	
1	POWER SOURCE		AVAILABLE IN ALL LOCAL AC VOLTAGE AND CYCLE			
2	POWER CONSUMPTION		50Hz	480W	50Hz	550W
			60Hz	550W	60Hz	600W
3	MACHINE WEIGHT		NON-PUMP	PUMP	NON-PUMP	PUMP
			47Kg	48Kg	49Kg	50Kg
4	DIMENSION (WXHXD)		630 X 1040 X 670		630 X 1060 X 670	
5	WASHING COURSE		FULL AUTOMATIC 6 COURSE (FUZZY, HEAVY, BLANKET, LIGHT, ECONOMY, WOOL)			
6	WATER CONSUMPTION		180 L		210 L	
7	WATER LEVEL SELECTOR		HIGH	97 L	HIGH	103 L
			MEDIUM	77 L	MEDIUM	87 L
			LOW	66 L	LOW	70 L
			E.LOW	42 L	E.LOW	43 L
8	OPERATING WATER PRESSURE		0.3kgf/cm ² ~8kgf/cm ² (2.94 N/cm ² ~78.4N/cm ²)			
	REVOLUTION PER MINUTE	50Hz	WASH : 125 - 140 RPM, SPIN : 640 - 675 RPM			
		60Hz	WASH : 130 - 150 RPM, SPIN : 710 -740 RPM			
10	PULSATOR		6 WINGS (Ø406mm)			
11	WATER LEVEL CONTROL		ELECTRONICAL SENSOR			
12	GEAR MECHANISM ASS'Y		HELICAL GEAR			
13	LINT FILTER		O			
14	AUTO SOFTENER INLET		O			
15	FUNCTION FOR TIME DELAY		O			
16	ALARM SIGNAL		O			
17	RESIDUAL TIME DISPLAY		O			
18	AUTO. WATER SUPPLY		O			
19	FUNCTION FOR BUBBLE		O			
20	AUTO RE-FEED WATER		O			
21	AUTO POWER OFF		O			



NOTES

In case of moving Washing Machine, please follow the following picture.

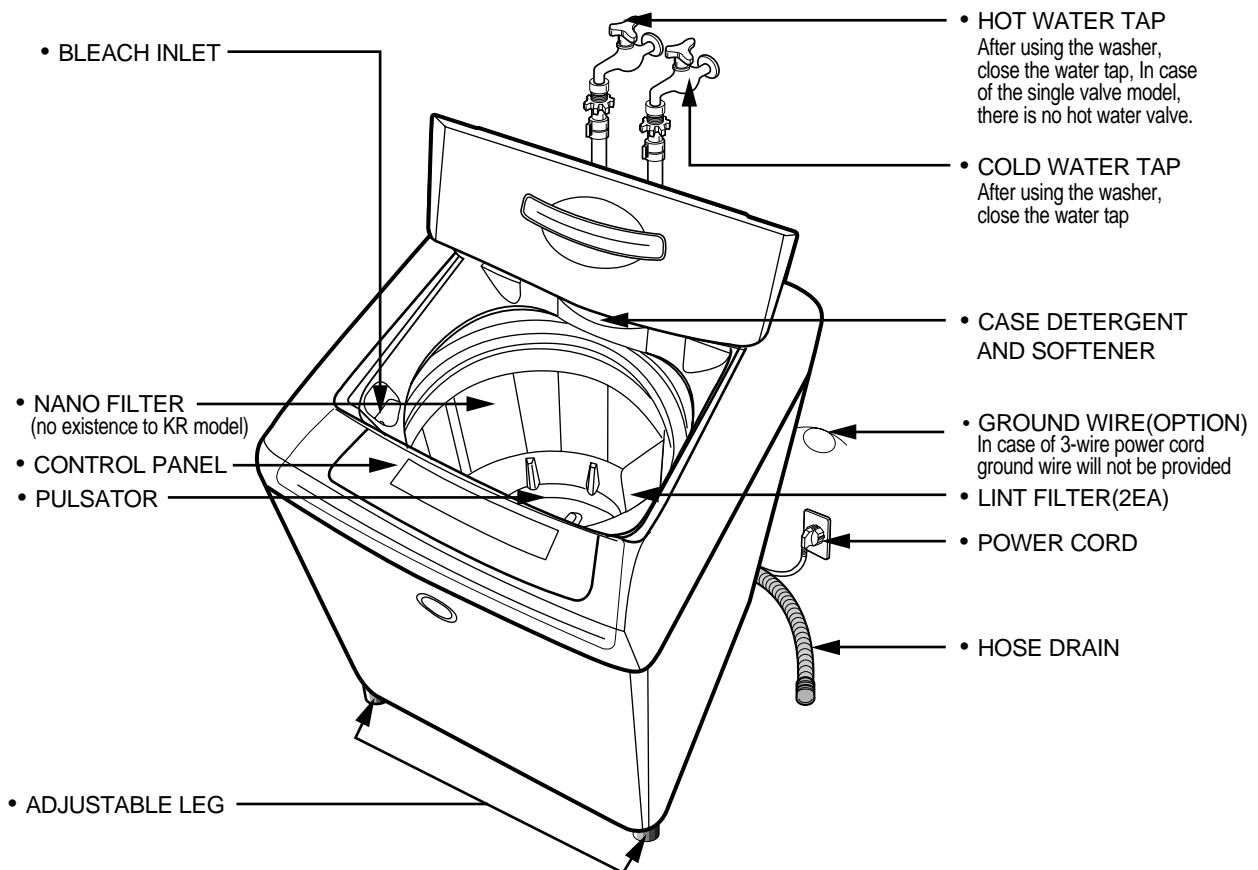


2. STRUCTURE OF THE WASHING MACHINE


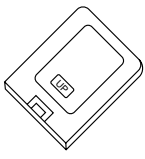
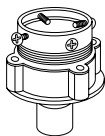

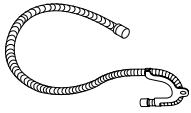


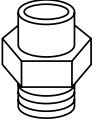
The parts and features of your washer are illustrated on this page.
Become familiar with all parts and features before using your washer.

NOTE

- The drawings in this book may vary from your washer model.
They are designed to show the different features of all models covered by this book,
Your model may not include all features.



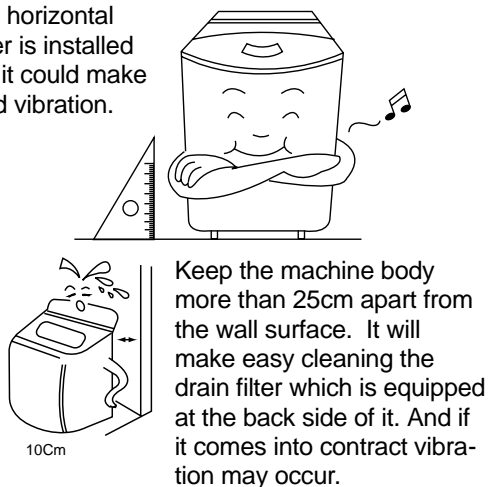
Accessories (Full Option)

DRYTEN [OPTION]	COVER UNDER (OPTION)	WATER TAP ADAPTER	INLET HOSE
			
HOSE DRAIN [FOR PUMP]	HOSE DRAIN CLAMP	HOSE DRAIN[FOR NONPUMP]	CONNECTOR INLET [OPTION]
			

3. DIRECTIONS FOR INSTALLATION AND USE

Installing Place

Install the washer on a horizontal solid floor. If the washer is installed on an unsuitable floor, it could make considerable noise and vibration.

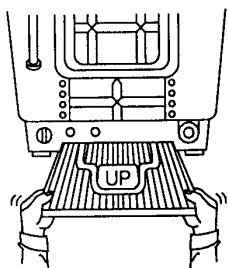


Never install in these places

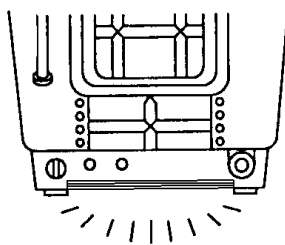
- The place where it would be exposed to direct sunlight.
- The place nearby a heater or heat appliance.
- The place where it would be supposed to be frozen in winter.
- The kitchen with coal gas and a damp place like a bathroom.

Installation Of The Noise Insulation Plate

- 1** The packing box opened, there is a noise insulation plate at the bottom of the back



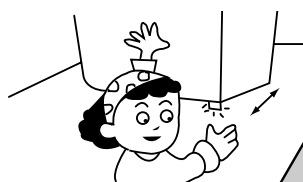
- 2** Push the noise insulation plate into the end, which decrease the noise made by this washer.



How To Install On An Inclined Place

1 Horizon Setting

After controlling the height by turning the adjustable leg, let the washer put down to the ground.



2 Check the Horizon Status

Check the position of tub above the center of the washer.



NOTES

The openings must not be obstructed by carpeting when the washing machine is installed on a carpeted floor.

■ How to Connect the Inlet Hose

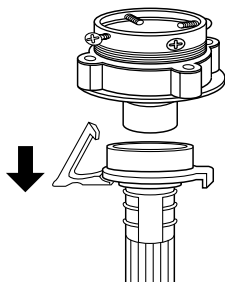
Be careful not to mistake in supplying between the hot(maximum : 50°C) and cold water.

In using only one water tap or in case of attached one water inlet valve, connect the inlet hose to the cold water inlet valve.

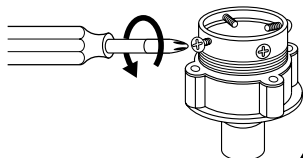
Do not over tighten : this could cause damage to couplings.

• • • • FOR ORDINARY TAP

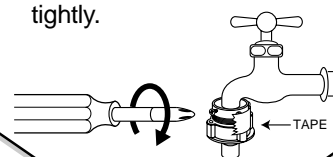
- 1** Pull down the collar of the inlet hose to separate it from the water tap adapter.



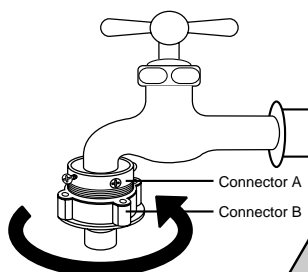
- 2** Loosen the four screws at the water tap adapter, but don't loosen the screws until they are separated from the water tap adapter.



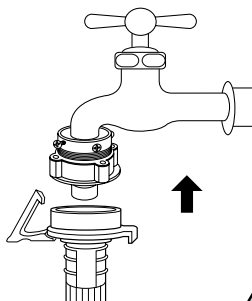
- 3** Connect the water tap adapter to the water tap tightly. Tighten the four screws evenly while pushing up the adapter so that the rubber packing can stick to the water tap tightly.



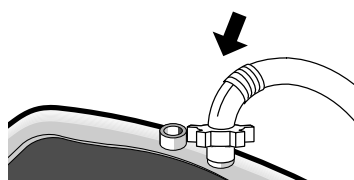
- 4** Remove the tape, and screw connector B into connector A tightly.



- 5** Connect the inlet hose to the water tap adapter by pulling down the collar of the hose end.



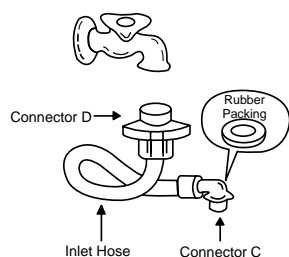
- 6** Connect the inlet hose adapter of the hose to the water inlet of the washer by turning it clockwise to be fixed tightly.



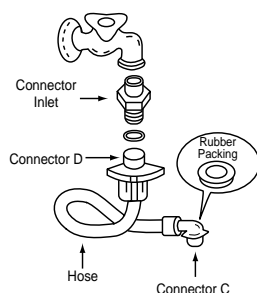
- Please check the rubber packing inside the inlet hose adapter of the hose.

• • • • FOR SCREW-SHAPED TAP

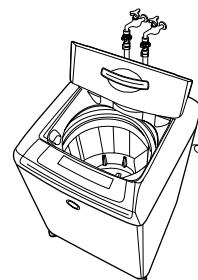
- 1** Connect the inlet hose to the water tap by screwing the connector D tightly.



- 2** Connect the connector-inlet supplied if necessary.



- 3** Insert the inlet hose adapter into the water inlet of a washer and turn it to be fixed.

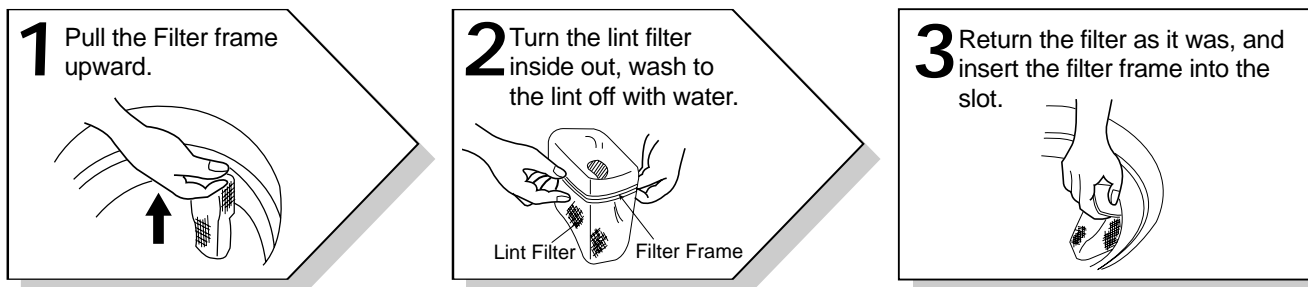


- Check the packing in the inlet

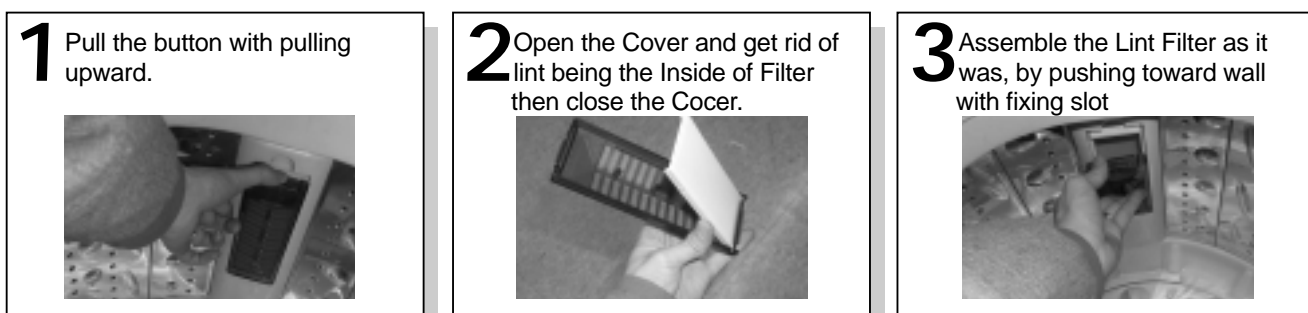
• • • • CLEANING THE LINT FILTER

- This washer has two type of lint Filter in order to increase lint filtering performance.

Type I : It is assembled in the top area of Tub.

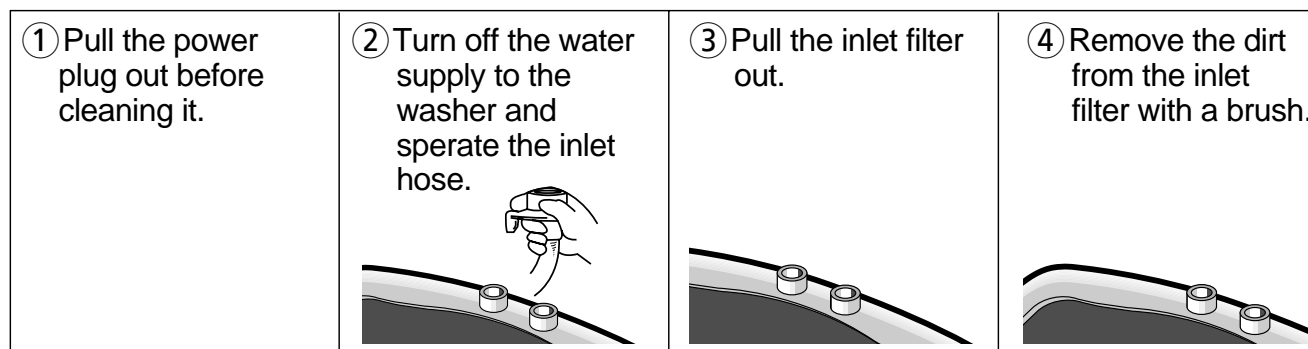


Type II : It is assembled in the middle area of Tub.(no existence to KR model)



• • • • CLEANING THE WATER INLET FILTER

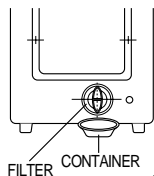
- Clean the filter when water leaks from, the water inlet.



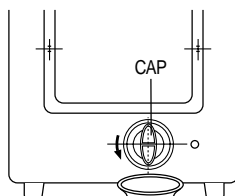
• • • • CLEANING THE DRAIN FILTER

- In case “U” shape drain hose, this filter’s equipped at the back side of washer.
- This drain filter is to screen the foreign stuffs such as threads, coins, pins, buttons etc ...
- If the drain filter is not cleaned at proper time (every 10 times of use), Drain problem could be caused.

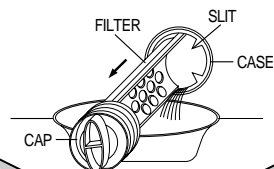
- 1** Put down the remained water in the hose. And put a container under the filter to collect water.



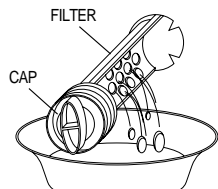
- 2** Turn the cap counter clockwise.



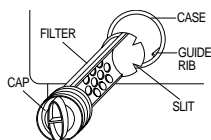
- 3** Pull out the filter assembly off the case of the main body.



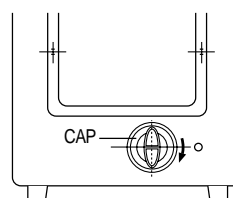
- 4** Clean the drain filter removing the foreign stuffs.



- 5** Put in the filter along the guiding prominence of the case. Please note the left position of the filter adjusting the groove to the guide rib.



- 6** Turn the cap clockwise tightly.



4. FEATURE AND TECHNICAL EXPLANATION

Feature of the Washing Machine

- 1 First applying the Radical Technology in the world ... go beyond washing, sterilize your clothes and deodorize a bad smell.
- 2 The first air bubble washing system in the world.
- 3 Quiet washing through the innovational low-noise design.
- 4 Improving washing performance by more than 35%, while reducing power consumption by 40%.
- 5 The laundry detergent dissolves well in water because of the air bubble washing system.
- 6 The adoption of the water currents to adjust the unbalanced load.
- 7 One-touch operation system.

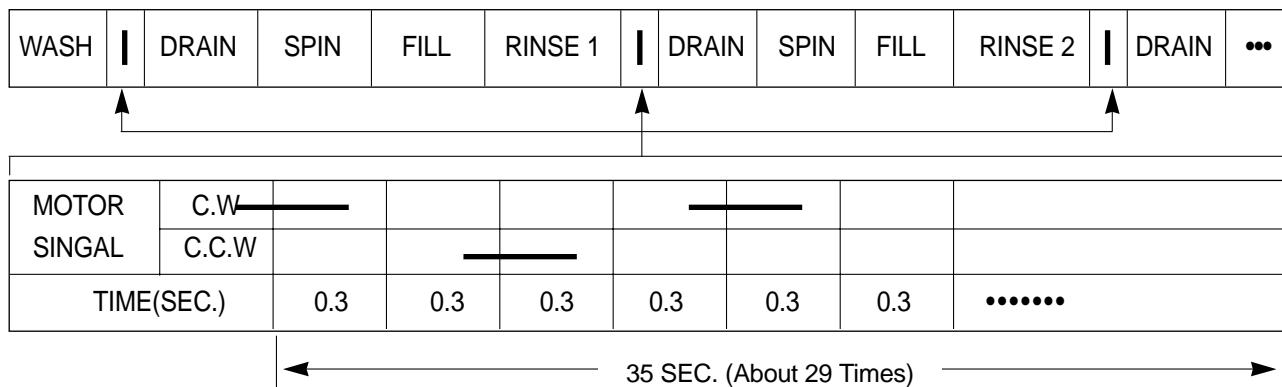
Water Current to Adjust the Unbalanced Load

It is a function to prevent eccentricity of the clothes after wash by rotating pulsator C.W and C.C.W for 35 seconds.(But, the SUIT course have no operation of the water currents to adjust the unbalanced load.)

EFFECT

It reduces vibration and noise effectively while spinning.

WATER FLOW

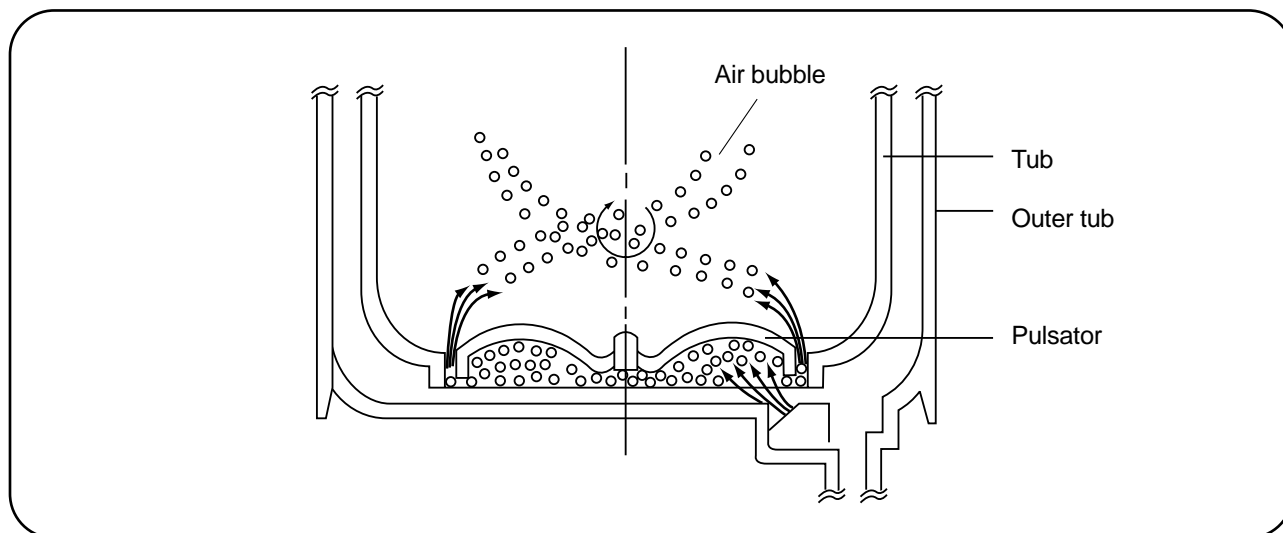


Automatic Water Supply System For Blanket Wash

The water level would be lowered because the blanket absorbs water at the beginning of washing. Therefore, after 2 minutes, the operation is interrupted to check the water level, and then the water is supplied again until the selected water level is reached.

Functional Principle of Bubble Washing Machine

ACROSS SECTION



FUNCTIONAL PRINCIPLE

Bubble Motor supplies the air from the bottom of outer tub to the inner space of pulsator, the air is dispersed by the rotation of pulsator. Air-bubble is created by the centrifugal force, and rises up.

Automatic Draining time Adjustment

This system adjusts the draining time automatically according to the draining condition.

Draining condition	Good draining	The washer begins spin process after drainage.
	Bad draining	Draining time is prolonged.
	No draining	Program is stopped and gives the alarm.

FUNCTIONAL PRINCIPLE

1 The micom can remember the time from the beginning of drain to reset point when the pressure switch reaches to "OFF" point

Drain Time	Movement of the Program
Less than 15 minutes	Continue draining
More than 15 minutes	Program stops and gives the alarm with DE blinked on display lamp.

2 In case of continuous draining, residual drain time is determined by micom.

Draining time as a whole = D + 90

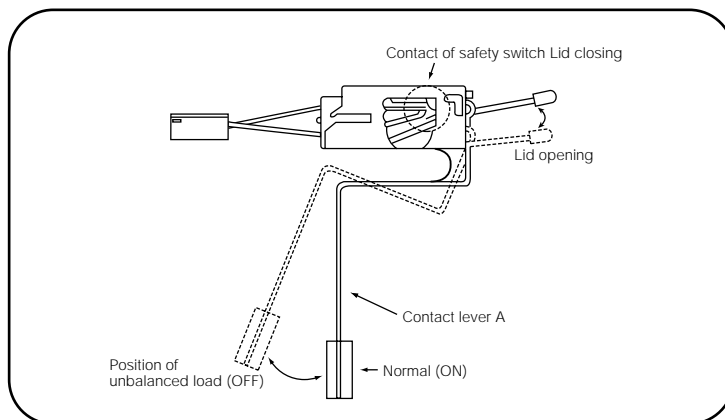
_____ Residual drain time.
_____ The time remembered by micom.

Automatic Unbalance Adjustment

This system is to prevent abnormal vibration during intermittent spin and spin process.

FUNCTIONAL PRINCIPLE

- 1 When the lid is closed, the safety switch contact is "ON" position.
- 2 In case that wash loads get uneven during spin, the outer tub hits the safety switch due to the serious vibration, and the spin process is interrupted.
- 3 In case that P.C.B. ASS'Y gets "OFF" signal from the safety switch, spin process are stopped and rinse process is started automatically by P.C.B. ASS'Y.
- 4 If the safety switch is operated due to the unbalance of the tub, the program is stopped and the alarm is given.



NOTES

The alarm finished when you close the lid after opening it. Check the unbalance of the wash load and the installation condition.

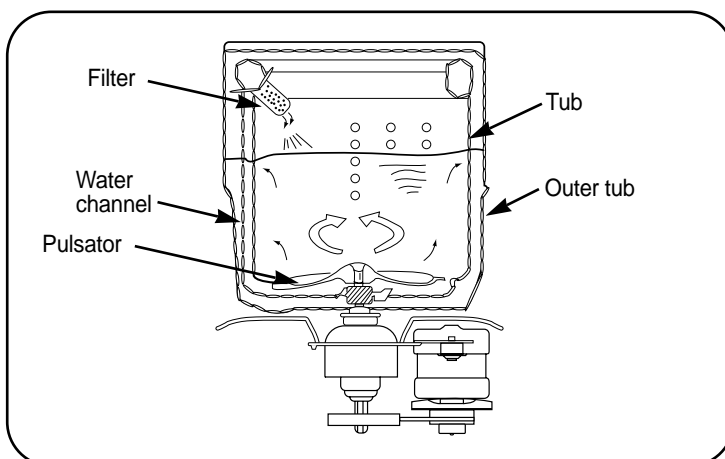
Circulating-Water Course and Lint Filter

CIRCULATING-WATER

The washing and rinsing effects have been improved by adopting the water system in which water in the tub is circulated in a designed pattern.

When the pulsator rotates during the washing or rinsing process, the water below the pulsator fans creates a water currents as shown in figure.

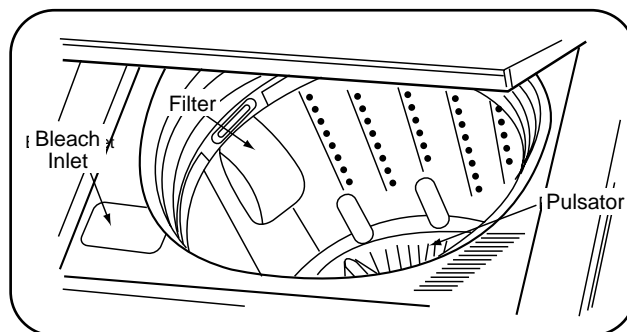
The water is then discharged from the upper part of the tub through the water channel. About 40 L/min. water is circulated at the 'high' water level, standard wash load and standard water currents.



Lint Filter

Much lint may be obtained according to the kind of clothes to be washed and some of the lint may also sticks to the clothes.

To minimize this possibility a lint filter is provided on the upper part of the tub to filter the wash water as it is discharged from the water channel. It is good to use the lint filter during washing.



HOW TO REPLACE LINT FILTER

- 1 Pull the filter frame upward.
- 2 Turn the lint filter inside out, and wash the lint off with water.
- 3 Return the filter as it was, and fix the filter frame to the slot.

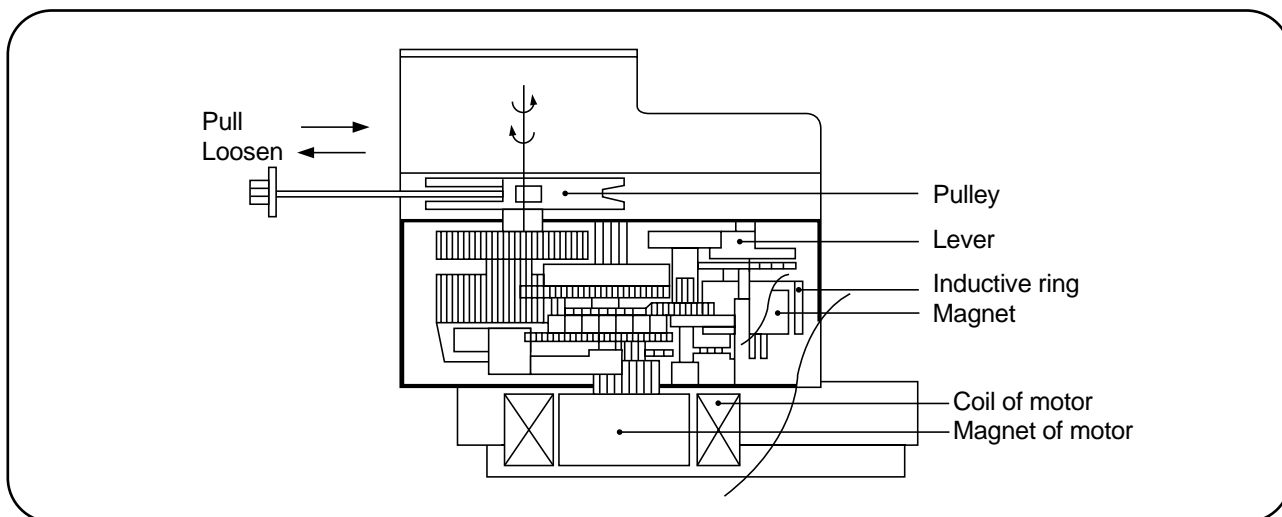
Residual Time Display

When the START/HOLD button is pressed, the residual time (min.) is displayed on the time indicator, and it will be counted down according to process.

When operation is finished, the TIME INDICATOR will light up .

Drain Motor

STRUCTURE

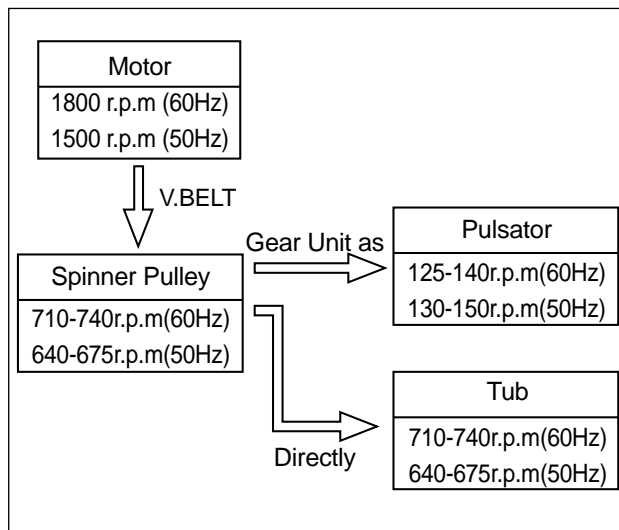
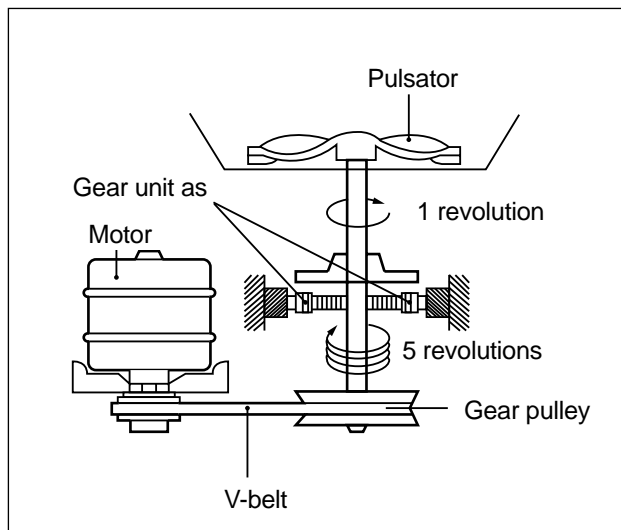
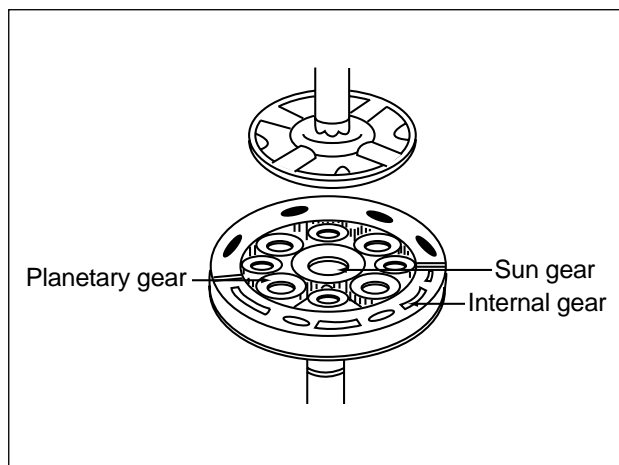
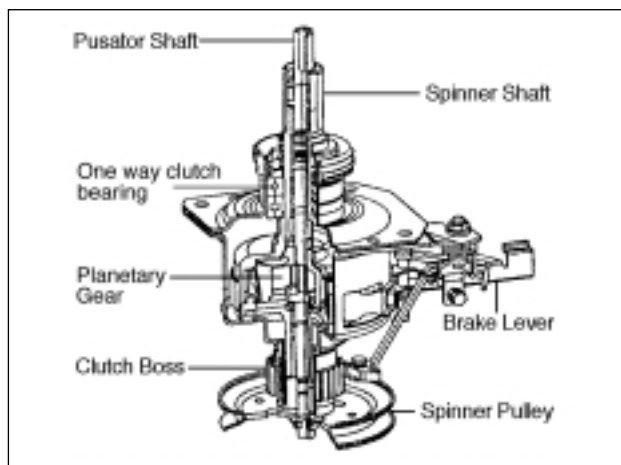


FUNCTIONAL PRINCIPLE

- 1 When the DRAIN MOTOR connected to the power source, the DRAIN MOTOR rotates with 900 r.p.m and revolves the pulley by gear assembly for reducing.
- 2 When the pulley is rotated, the pulley winds the wire to open the drain valve.
- 3 Therefore, rotation of pulley changed to the linear moving of wire.
- 4 The wire pulls the brake lever of Gear Mechanism Ass'y within 5 seconds.
- 5 After the wire pulled, gear assembly is separated from motor and condition of pulling is held by operation of the lever.
- 6 When the power is turned off, the drain valve is closed because the wire returns to original position.

Gear Mechanism Ass y

The proper water currents is made by the rotation of pulsator at a low speed to prevent the damage to the small sized clothes.



5. DIRECTIONS FOR DISASSEMBLY AND ADJUSTMENT

Warning

BEFORE ATTEMPTING TO SERVICE OR ADJUST ANY PART OF THE WASHING MACHINE, DISCONNECT THE POWER CORD FROM THE ELECTRIC OUTLET.

Gear Mechanism Ass'y Replacement

GEAR MECHANISM ASSY REPLACEMENT

- ① Raise the top plate on the outer cabinet.
- ② Loosen four screws mounting outer tub cover and remove outer tub cover from the tub ass'y.



- ③ Remove the cap pulsator from the pulsator ass'y by using screw driver



- ④ Loosen the pulsator mounting screw and remove the pulsator.



- ⑤ Remove the special nut by using "T" type box wrench.
- ⑥ Remove the special washer.



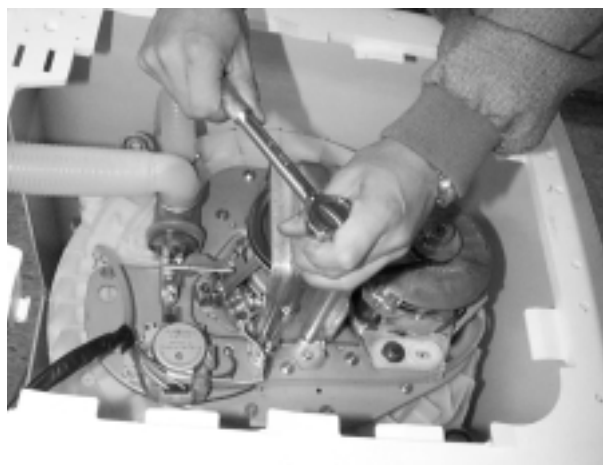
⑦ Remove the tub i assy.



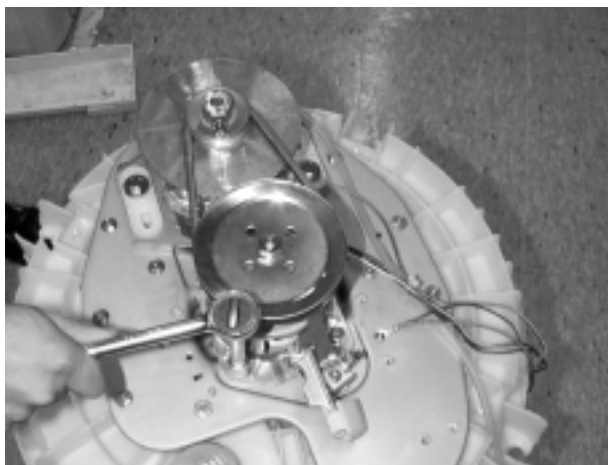
⑧ Lay the front of the washer on the floor.

⑨ Remove four special bolts of gear protect by using a box wrench and remove gear protect.

⑩ Remove the V-belt.



⑪ Remove four special bolt of gear mechanism ass'y by using a box wrench.



⑫ Pull out the gear mechanism ass'y.

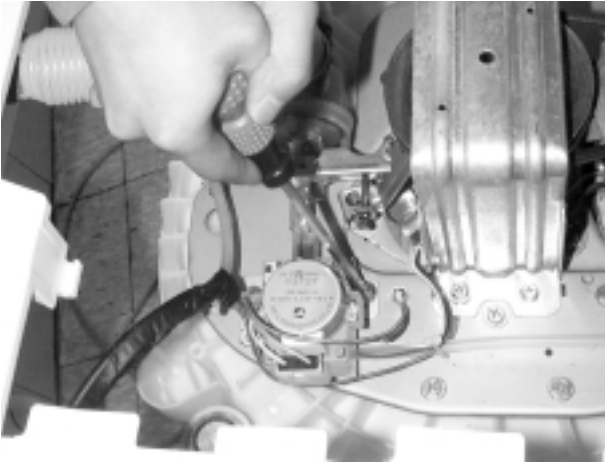


NOTES

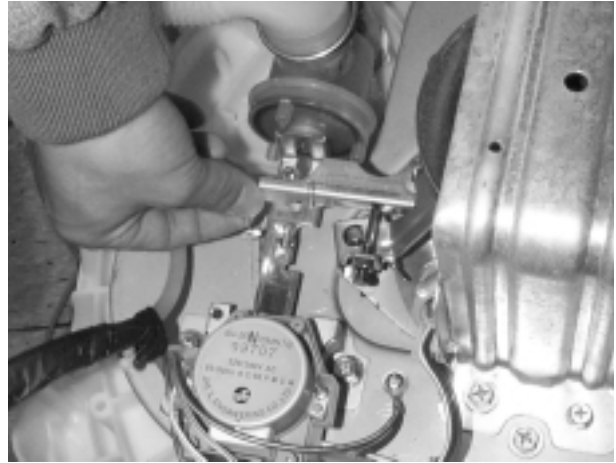
To assemble the gear mechanism ass'y, reverse the disassembly procedure.

MOTOR SYNCHRONOUS AND VALVE REPLACEMENT (NON PUMP MODEL)

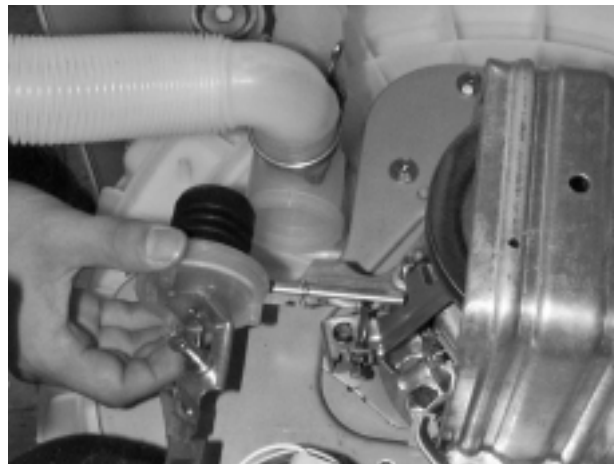
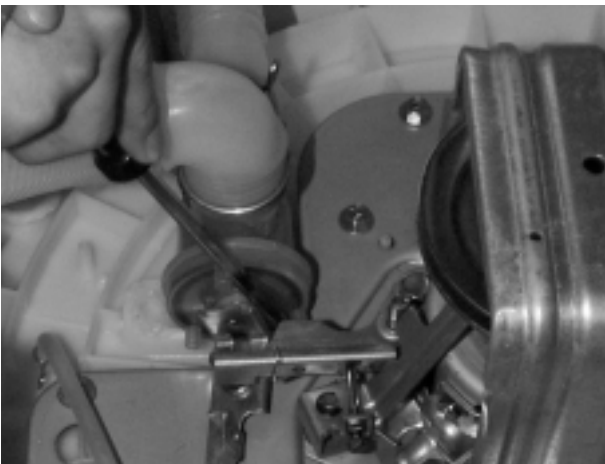
- ① Lay the front of the washer on the floor.
- ② Loosen two special screw of motor synchronous.



- ③ Take out the wire of motor synchronous from the bracket.
- ④ Separate the motor synchronous from the base.

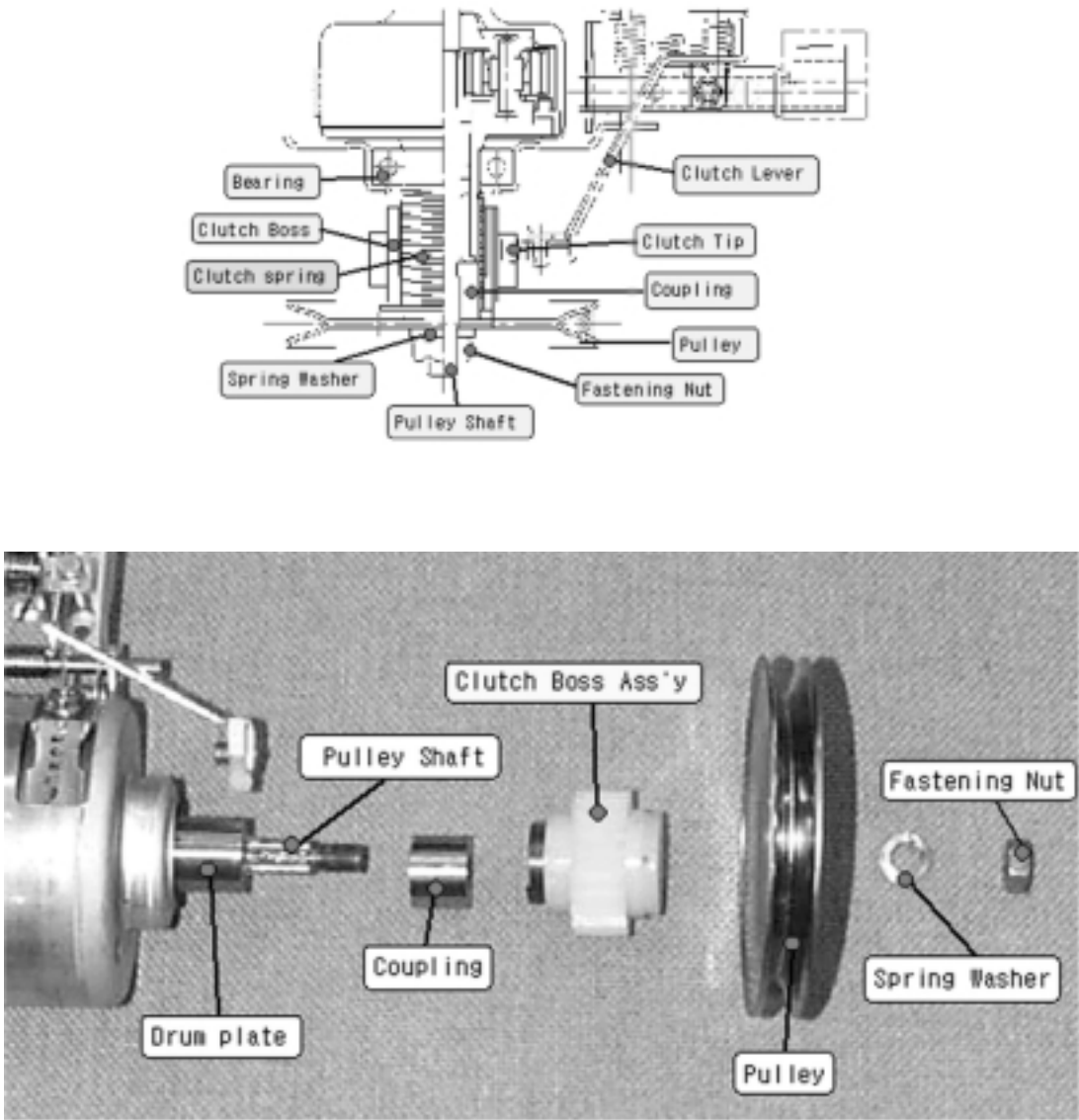


- ⑤ Turn the valve by using screw driver as shown in picture.
- ⑥ Remove the valve lid from the valve drain assy.

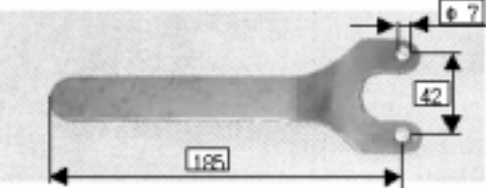


6. THE REPAIR METHOD OF GEAR MECHANISM FOR CLUTCH SPRING PROBLEM

The Structure Of Gear Mechanism



●TOOL FOR REPLACING THE CLUTCH BOSS ASSEMBLE●

Tool name	Specification	Q'ty
Fixing jig		1
Ratchet handle		1
Socket and extension bar	socket : 10mm, 17mm	per each
Some cotton yarn		some

How To Check The Clutch Spring Problem

PROBLEM

- 1) THE LAUNDRY IS IN THE SPIN TUB UNEVENLY WHEN JUST STARTING SPIN PROCESS.
- 2) THEREFORE, IT CAUSE THE SERIOUS NOISE AND VIBRATION WHEN WASHING AND SPINNING PROCESS OR SUPPLING WATER IRREGULARLY WHEN SPINNING PROCESS AND CAUSE SHORT OF SPIN PERFORMANCE.

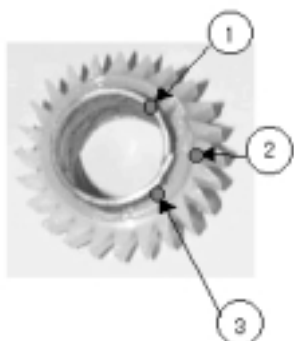
CHECKING METHOD

IN THIS CASE, YOU MUST EMPTY THE SPIN TUB FIRST.

- 1) TO CHECK THE REVOLUTION OF SPIN TUB. IF THE SPIN TUB DOES NOT REVOLVE AND ONLY THE PULSATOR IS TURNING, THAT IS CLUTCH SPRING DEFECT.
- 2) TO CHECK THE SPIN SPEED(RPM) BETWEEN SPIN TUB AND PULSATOR.
IF YOU FIND THE DIFFERENT SPIN SPEED BETWEEN SPIN TUB AND PUSATOR, THIS IS ALSO CLUTCH SPRING DEFECT.

IN THIS CASE, WE ARE GOING TO SUPPLY THE CLUTCH BOSS ASSEMBLY INSTEAD OF GEAR MECHANISM ASSEMBLY. PLEASE REFER TO FOLLOWING FIG.

THE CLUTCH BOSS ASSEMBLY

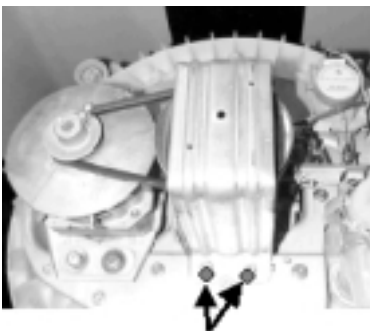
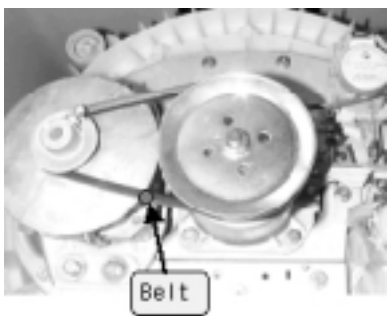
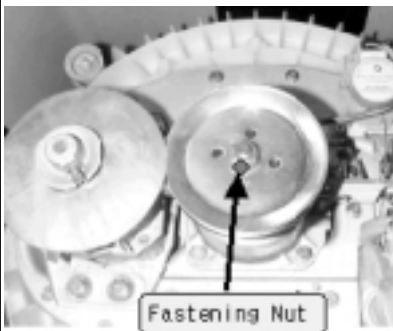
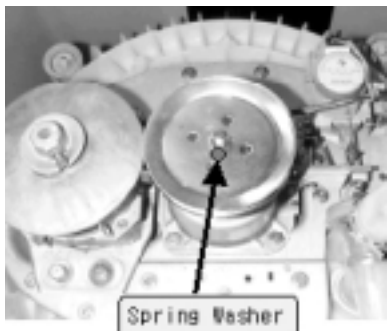


NO.	PARTS NAME	SPECIFICATION	CODE	Q'TY
1	CLUTCH SPRING	1.5*1.5	3615110000	1
2	CLUTCH BOSS	PP	3619301300	1
3	GREASE	beacon#325 3g		
PACKING METHOD	PACKING THE CLUTCH BOSS ASS'Y BY USING VINYL PACK			1

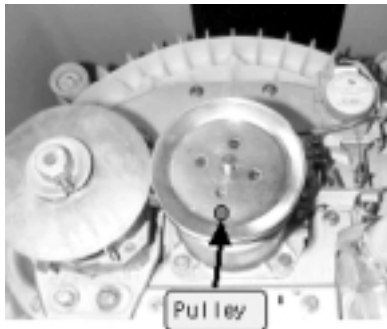
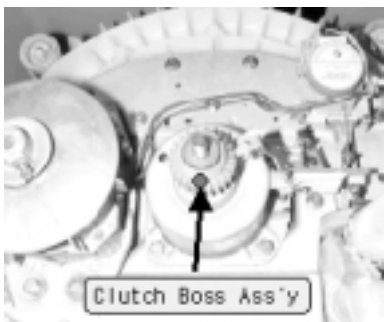
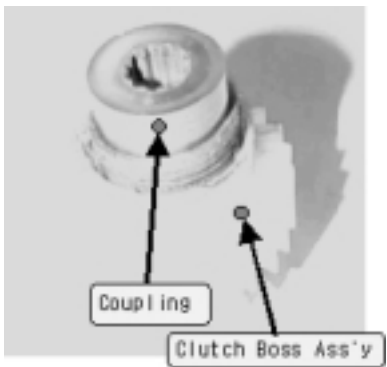
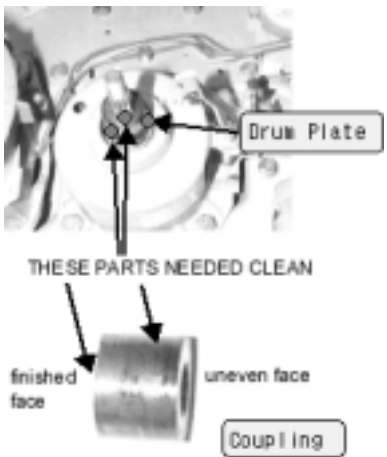
CLUTCH BOSS ASS'Y PART CORD : 3619301400

The Process Of Disassemble

Disassemble 1

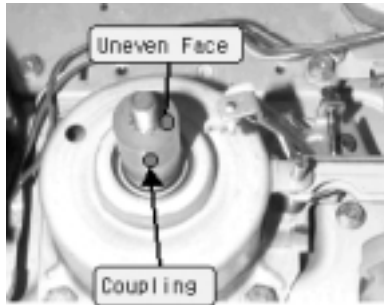
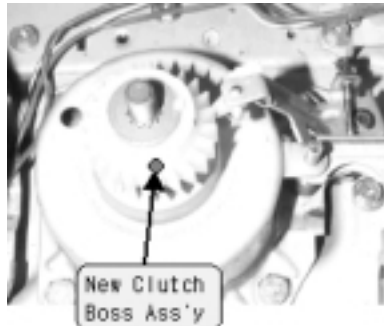

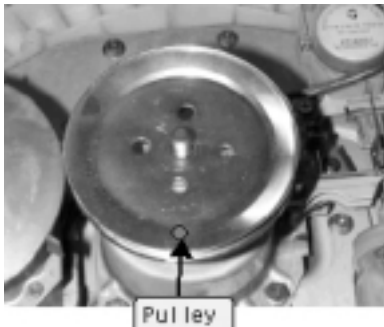

No.	Process	Notice
1	 <p>Release screws marked 4-point</p>	<p>Remove the protector</p> <p>Use wrench or driver - ratchet handle - extension bar - socket : 10mm</p>
2	 <p>Belt</p>	<p>Remove the v-belt</p>
3	 <p>Fastening Nut</p>	<p>Loosen the fastening nut</p> <p>Use fixing jig for pulley as to see fig 1. and 17mm-socket for nut</p>
4	 <p>Spring Washer</p>	<p>Disassemble the spring washer</p> <p>Take out plain washer if it has</p>

Disassemble 2

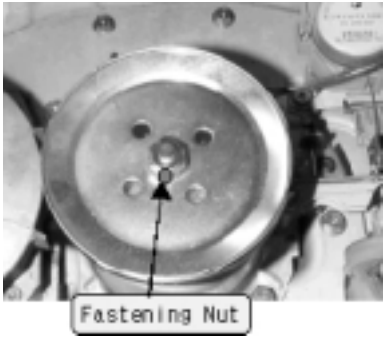

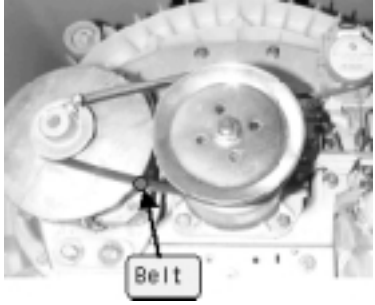
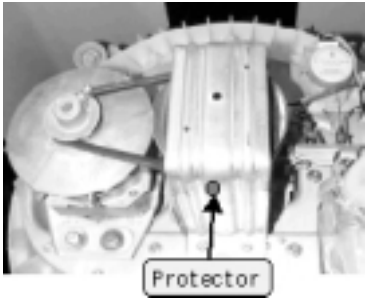
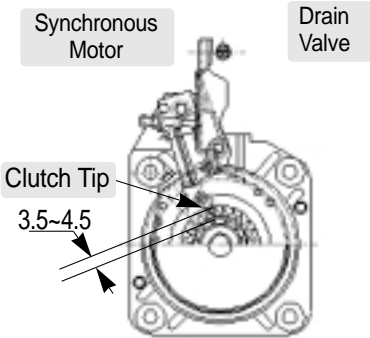
No.	Process	Notice
5	 <p>Disassemble the pulley</p>	
6	 <p>Disassemble the clutch boss assembly</p>	Catch the boss and pull upward with spiral rotate in the clockwise direction
7	 <p>Separate coupling from clutch boss ass'y</p>	
8	 <p>Cleaning</p>	<p>Clean the drum plate, coupling surface and contact face between drum plate and coupling</p> <p>It is necessary to keep cotton piece goods being dry and clean</p>

The Process Of Assemble



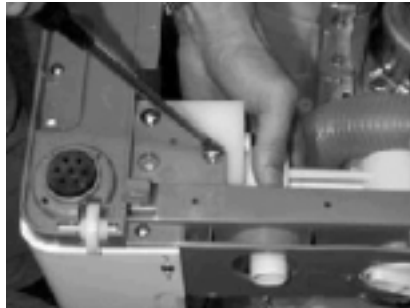


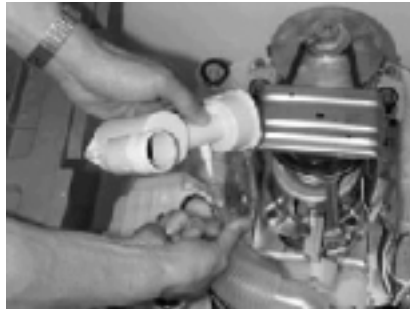

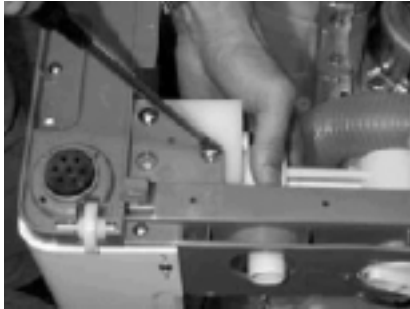
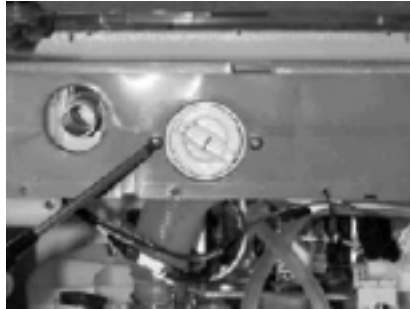



Assemble 1

No.	Process	Notice
1	 <p>Assemble the coupling</p>	Check the uneven face of coupling is assembled upward
2	 <p>Assemble the new clutch boss ass'y</p>	<ul style="list-style-type: none"> - Push in the clutch boss ass'y with rotating on the clockwise direction. - After assembling, rotate on the clockwise more 2~3 teeth and pull out the pulley shaft upward 
3	 <p>Assemble the pulley</p>	
4	 <p>Assemble the spring washer</p>	If there was plain washer, you have to assemble plain washer the first and then assemble spring washer

Assemble 2

No.	Process	Notice
5	 <p>Fastening Nut</p> <p>Assemble the fastening nut</p>	<p>- Use fixing jig and 17mm socket wrench as if disassembling, as fastening torque about 100~200kgf-cm.</p> <p>- Check the end-play, up and downward and check the binding force, too much or not on bi-direct of rotation.</p> 
6	 <p>Belt</p> <p>Assemble the Belt</p>	
7	 <p>Protector</p> <p>Assemble the protector</p>	
8	 <p>Synchronous Motor</p> <p>Drain Valve</p> <p>Clutch Tip 3.5~4.5</p> <p>Final checking</p>	<p>Finally, check the interference depth both clutch tip and clutch boss(3.5~4.5mm)</p>

REPLACE THE CASE FILTER ASS'Y

① separate the back cover from washing machine	② remove two screws	③ remove three screws
		
④ turn the case filter ass'y and separate it from the drain motor	⑤ separate the drain hose i from the case filter ass'y	⑥ separate the cavitation hose from the case filter ass'y
		
⑦ assemble the case filter ass'y that purchased	⑧ tie up three screws	⑨ tie up two screws
		
⑩ assemble the hose drain I to the case filter with bond & clamp	⑪ assemble the cavitation hose to the case filter with bond & clamp	⑫ assemble the back cover to the washing machine
		

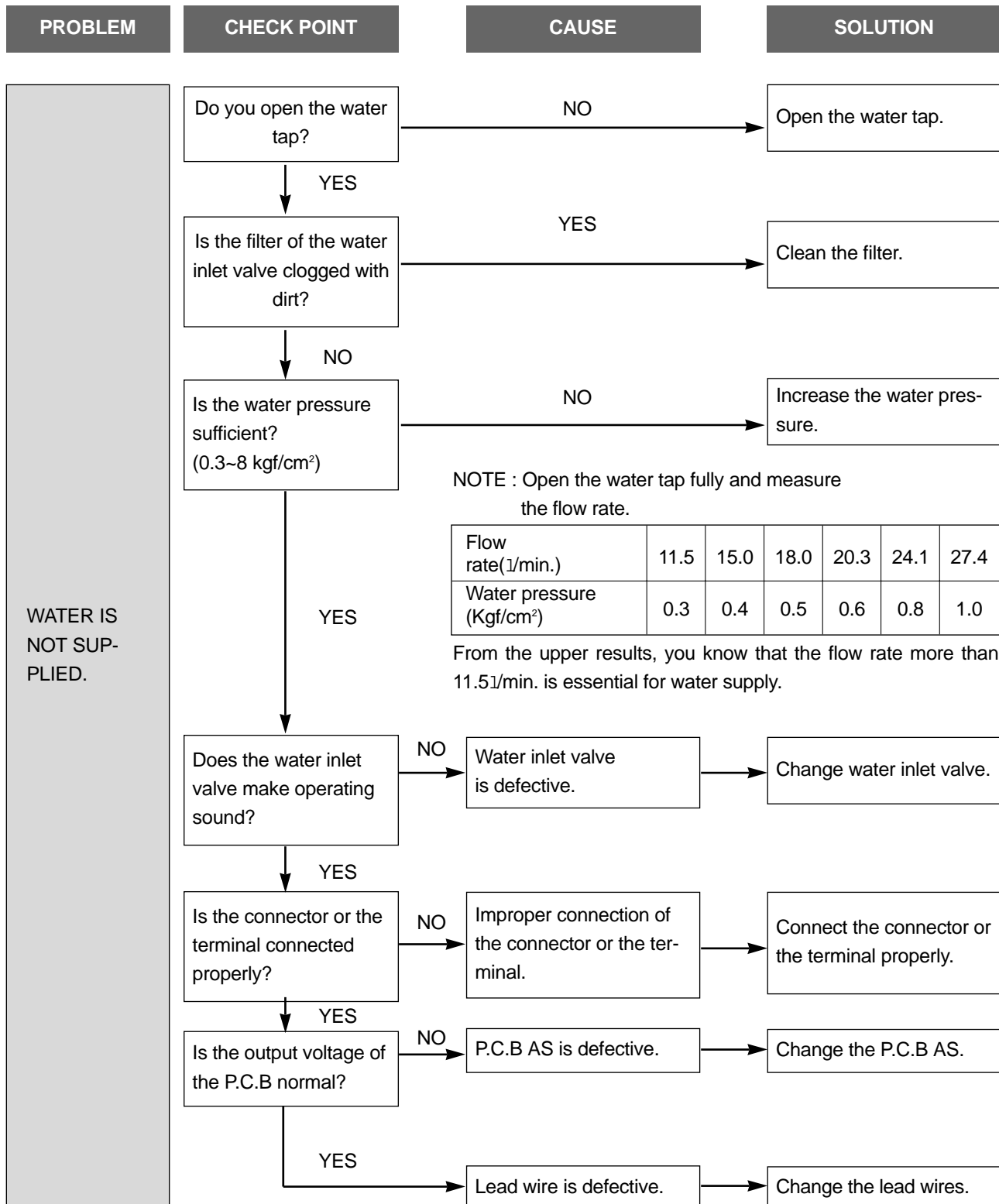
7. TROUBLE SHOOTING GUIDE



NOTES

1. When replace the P.C.B. ASS'Y do not scratch the surface of the P.C.B. ASS'Y.
2. Disconnect the power cord from the electric outlet.

Concerning Water Supply

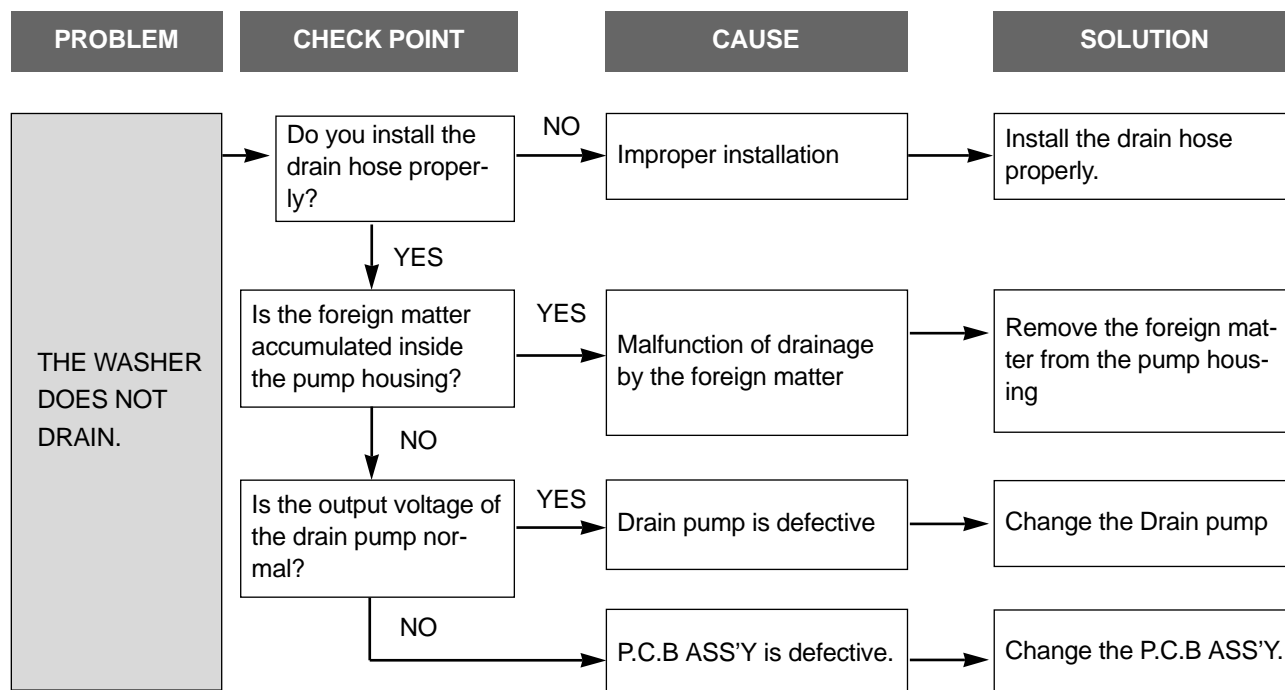


PROBLEM	CHECK POINT	CAUSE	SOLUTION
WATER SUPPLY IS NOT STOPPED.	Does the water supply continue while the power is turned off?	YES The water inlet valve is defective.	Change the water inlet valve.
	NO Does the water supply start as soon as you press the power switch?	YES The triac of P.C.B is defective.	Change the P.C.B ASS'Y.
	NO Operate the washer after setting the water level to "HIGH"		
	Does the water supply continue after the water reaches to the "HIGH" level?	NO	Normal operation.
	YES Is the air tube of water level switch kinked or deformed?	YES Air tube is defective.	Change the air tube.
	NO Pressure switch is defective.	Change the pressure switch.	

Concerning Washing

PROBLEM	CHECK POINT	CAUSE	SOLUTION
THE PUL-SATOR DOES NOT ROTATE EVEN IF THE WATER IS SUPPLIED.	Does the motor operate after finishing water supply?		
	NO Does pulsator rotate in only one direction?	YES The triac of P.C.B is defective.	Change the P.C.B ASS'Y.
	YES Does the motor make operating sound?	NO	Normal
	NO Is the motor coil disconnected?	YES Motor is defective.	Change the motor.
	YES Is the connection condition of capacitor terminal good?	NO Improper connection	Connect the terminal properly.
	YES Is the V-belt worn out?	NO V-belt is defective.	Change the V-belt.
	NO		Change the motor.

Concerning Draining



Concerning Spinning







PROBLEM	CHECK POINT	CAUSE	SOLUTION
THE WASHER DOES NOT SPIN.	Is the lid open?	YES	Close the lid.
	NO		
	Does the door switch operate normally?	Door switch is defective.	Change the door switch.
	Does the safety switch operate normally?	NO Safety switch is defective.	Change the safety switch.
	YES		
	Is the connector of P.C.B ASS'Y connected properly?	NO Improper connection of the connector.	Connect the connector properly.
	YES	P.C.B. ASS'Y is defective.	Change P.C.B ASS'Y.
	Does the pulsator rotate while the tub does not rotate?		
	NO		
	YES		
	Is the input voltage of the drain motor normal?	YES Drain motor is defective.	Change the drain motor.
	NO	P.C.B ASS'Y is defective.	Change the P.C.B ASS'Y.
	Is the V-belt worn out?	YES V-belt is defective.	Change the V-belt.
	NO		
	Is the input voltage of motor normal?	YES Motor is defective.	Change the motor.
	NO		
	Is the connection condition of capacitor terminal good?	NO Improper connection.	Connect the terminal correctly.
	YES	P.C.B ASS'Y is defective.	Change the P.C.B ASS'Y.

Concerning Operation

PROBLEM	CHECK POINT	CAUSE	SOLUTION
THE INDICATOR LAMPS(L.E.D) DO NOT LIGHT UP WHEN THE POWER BUTTON IS PRESSED.	Is the plug connect-ed to electric outlet?	NO	Connect the plug.
	↓ YES		
	Is Fuse opened?	YES	Change Fuse
	↓ NO		
	Is the condition of power button good?	NO Power button is defective	Change P.C.B ASS'Y.
	↓ YES		
	Is the connector of the P.C.B. ASS'Y connect-ed properly?	NO Improper connection of the connector.	Connect the connector properly.
	↓ YES		
	Is input voltage of the transformer normal?	NO Transformer is defective	Change P.C.B Ass'y
		P.C.B. ASS'Y is defec-tive.	Change P.C.B ASS'Y.
PROGRESS LAMPS(LED) DO NOT LIGHT UP.	Do you press START/HOLD button?	NO	Press START/HOLD but-ton.
	↓ YES	P.C.B ASS'Y is defective.	Replace P.C.B ASS'Y.
MOTOR ROTATES WHEN START/HOLD BUTTON IS NOT PRESSED.	Does the pressure switch operate normally?	NO Pressure switch is defec-tive.	Change the pressure switch.
	↓ YES		
	Check the output voltage of P.C.B ASS'Y	Abnormal P.C.B ASS'Y is defective	Change P.C.B ASS'Y.
ABNORMAL NOISE DUR-ING WASH PROCESS.	Is the strange noise gen-erated when the pulsator rotates in TEST MODE of P.C.B ASS'Y?	YES There is foreign matter between pulsator and tub.	Remove the foreign mat-ter.
	↓ NO		
	Is the V-belt worn out?	YES V-belt is defective.	Change the V-belt.

8. PRESENTATION OF THE P.C.B ASS'Y

Concerning Error Message

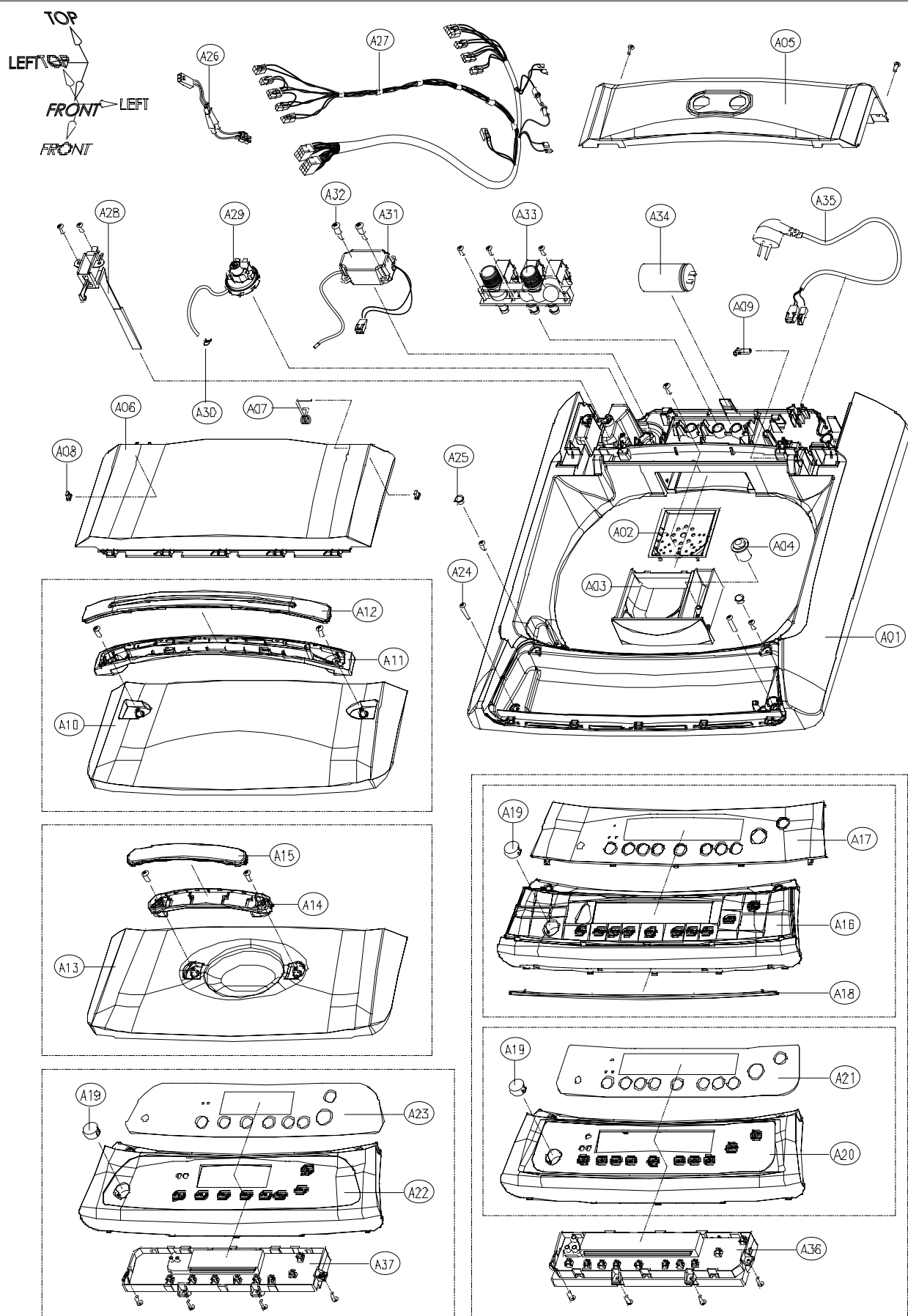
MESSAGE	CAUSE	SOLUTION
	Improper installation of drain hose.	Install drain hose properly.
	The drain hose is blocked up by foreign matter.	Remove foreign matter from drain hose.
	Drain motor is inferior.	Change drain motor.
	The water tap is closed.	Open the water tap.
	The water inlet filter clogged.	Clean the water inlet filter.
	It passes over the 60 minutes, yet it doesn't come to assigned water level.	Check whether or not it comes to the assigned water level.
	Wash loads get uneven during spin.	Re-set wash loads evenly.
	Poor installation of the unit.	Proper installation.
	The lid is opened.	Close the lid.
	The safety switch is inferior.	Change the safety switch.
	The load sensing is inferior. After the load sensing operates about 7 seconds, the message is displayed during 0.5 second and water level is always fixed 'high'.	Change the P.C.B. ASS'Y.
	The water level sensing is inferior.	Check the water level sensor and the contact part of the connector.

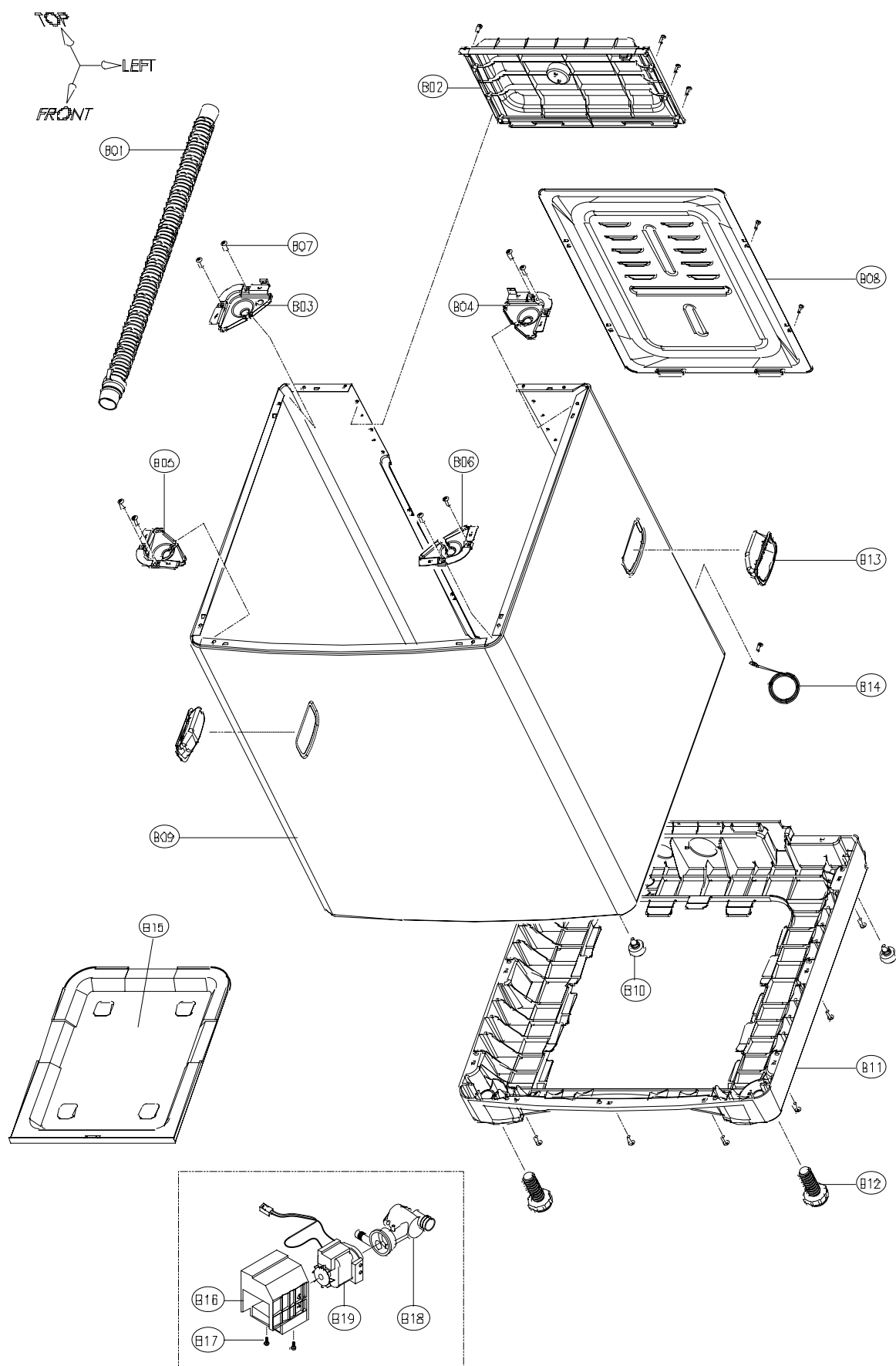
WIRING DIAGRAM (29)

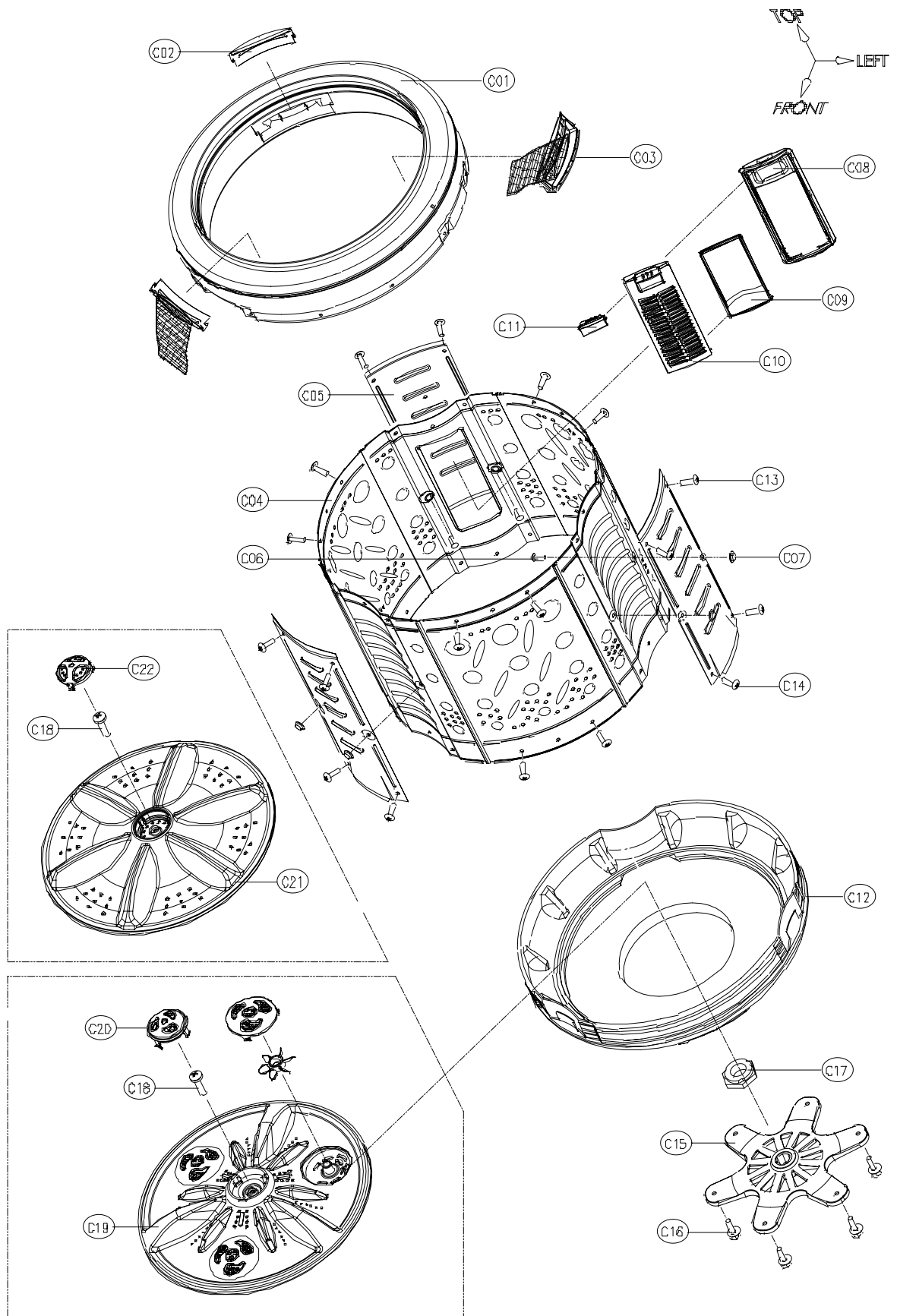
WIRING DIAGRAM (29)

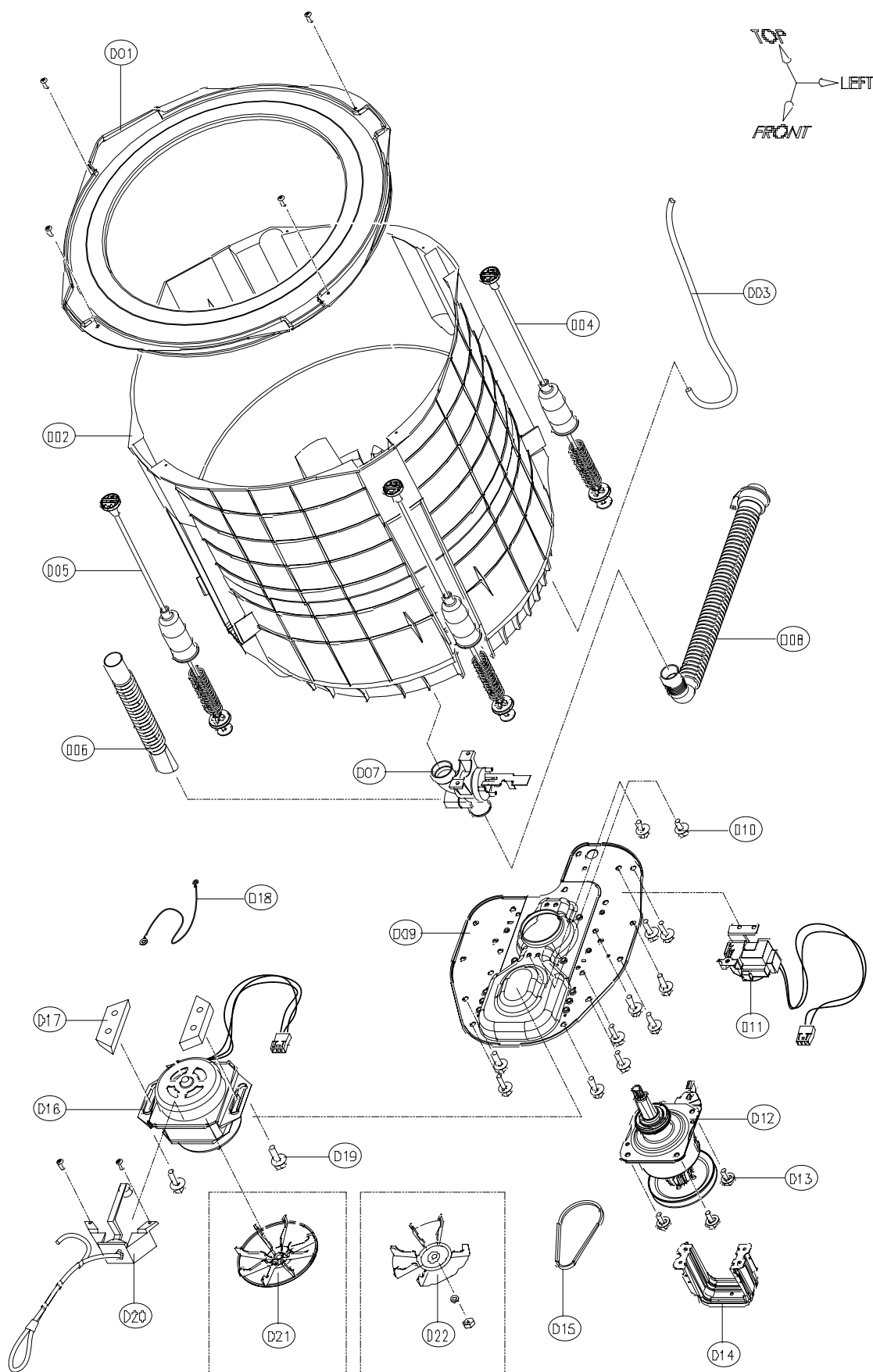


Parts Diagram









Parts List

NO.	PARTS CODE		PARTS NAME	DESCRIPTION	Q'TY	REMARK
	NORMAL	UV SPRAY				
A01	3614530200	3614530201	PLATE T	ABS	1	
A02	3618102500	-	NOZZLE DETERGENT	PP, 200C	1	
A03	3611131700	3611132720	CASE DETERGENT	ABS, RINSE	1	
A04	3610907800	-	CAP SOFTNER	PP	1	
A05	3614280100	3614280101	PANEL B	ABS	1	
A06	36117AAK00	36117AAK01	DOOR B	ABS	1	
A07	3615110110	-	SPRING DOOR	DWF-100M	1	
A08	3611559900	-	CUSHION DOOR	NR	2	
A09	3612902400	-	HINGE DOOR	POLYACETAL	1	
A10	36117AAJ01	36117AAJ00	DOOR F	ABS	1	KW UV SPRAY
A11	3612607700	-	HANDLE DOOR	ABS	1	
A12	3612607801	3612607800	HANDLE CAP	ABS	1	KA, KR, KC
A13	36117AAG00	36117AAG01	DOOR F	ABS	1	
A14	3612607400	3612607401	HANDLE DOOR	ABS	1	
A15	3612607500	3612607501	HANDLE CAP	ABS	1	
A16	3614280301	3614280300	PANEL F	ABS	1	KW IN-MOLD UV SPRAY
A17	3611629700	-	DECORATOR PANEL F	ABS, INMOLD	1	
A18	3611630000	-	DECORATOR BAR	ABS	1	
A19	3618971100	-	UNIT LEVELER	LEVELER	1	
A20	3614280400	3614280201	PANEL F	ABS	1	KA
A21	3611629900	-	DECORATOR PANEL F	PC FILM	1	
A22	3614280200	3614280201	PANEL F	ABS	1	KR, KC
A23	3611629600	-	DECORATOR PANEL F	PC FILM	1	
A24	7112503011	-	SCREW TAPPING	T1 TRS 5X30 MFZN	2	
A25	3610902600	-	CAP REAR	CR	2	
A26	3618956720	-	UNIT FILTER	7A, 12MH(K8-2)	1	KW, KA
A27	3612792920	-	HARNESS AS(200'S)	220-240V C/H NON-PUMP	1	N/RADICAL
	3612792910	-		220-240V C/H NON-PUMP		RADICAL
	3612792940	-		220-240V C ONLY NON-PUMP		N/RADICAL
	3612792930	-		220-240V C ONLY NON PUMP		RADICAL
	3612792990	-		220-240V C/H PUMP		N/RADICAL
	3612792985	-		220-240V C/H PUMP		RADICAL
	3612792960	-		100-127V C ONLY NON-PUMP		N/RADICAL
	3612792950	-		100-127V C ONLY NON-PUMP		RADICAL
	3612792970	-		100-127V C/H PUMP		N/RADICAL
	3612792980	-		100-127V C/H PUMP		RADICAL
A28	3619006310	-	SWITCH SAFETY AS	SF-030A13 CUSHION T=9MM	1	
A29	3614802312	-	SENSOR PRESSURE	15μμ 2-PIN CDN2-D01N-1	1	
A30	4507D08150	-	CLAMP	MFZN HOSE ID=7PIE	1	
A31	3618919950	-	UNIT BUBBLE AS	CDK-115B L=650, 110/60	1	260'S

NO.	PARTS CODE		PARTS NAME	DESCRIPTION	Q'TY	REMARK
	NORMAL	UV SPRAY				
A32	3606007400	-	SPECIAL SCREW	T2S TRS 4X10+24	2	260'S
A33	3615407100	-	VALVE INLET AS	220V/60HZ, C&H&R	1	MEXICO
	3615407110	-		110V/50.60HZ,C&H&R	1	
	3615407120	-		110-130V/60HZ, C&H&R	1	
	3615407130	-		220-240V/50HZ, C&H&R	1	
	3615407140	-		100V/50,60HZ, C&R	1	
	3615407150	-		100-130V/60HZ, C&R	1	
	3615407160	-		220V/60HZ, C&R	1	
	3615407170	-		220-240V/50HZ, C&R	1	
	3615407171	-		220-240V/50HZ. ANG-180	1	
	3615408300	-		AC220-240V/50HZ. COLD ONLY	1	
A34	3618911300	-	UNIT CAPACITOR	12.5µfi 400VAC CAN TYPE	1	220-240V
	3618911400	-		13.5µfi 400VAC CAN TYPE	1	220V
	3618911800	-		41.6µfi 400VAC CAN TYPE	1	127V MEX
	3618912400	-		54µfi 200VAC CAN TYPE	1	110V
	3618955300	-		16.5µfi 200VAC CAN TYPE	1	110V, 260'S
A35	3611305100	-	POWER CORD AS	3*0.75 2.3M	1	KOREA
	3611305110	-		U VCTF 3*0.75 2.3M	1	PERU
	3611305500	-		A-VCTFK 2*0.75 2.3M GY	1	MEXICO
	3611304610	-		N LFC-2R 3*0.75 2.3M GY	1	AUSTRALIA
	3611336650	-		F H05W 3*0.75 2.3M WH	1	CHILE
	3611304810	-		RW-300/500 3*0.75 2.3M	1	CHINE
	3611304910	-		VCTF 3*0.75 2.3M	1	INDIA
	3611305310	-		H05W-F 3*0.75 2.3M WH	1	MALAYSIA
	3611305410	-		H05W-F 3*0.75 2.3M BK	1	SINGAPORE
	3611305810	-		H05W-F 3*0.75 2.3M GY	1	SOUTH AFRICA
	3611305610	-		F H05W 3*0.75 2.3M BK	1	USSR, SPAIN
	3611336030	-		H05W-F 3*0.75 2.3M GY	1	ARGENTINA
	3611302900	-		3*0.75 300*2 L=1800	1	KOREA
	3611302820	-		A-VCTFK 1.9M	1	TAIWAN
A37	PRPSSW2Y03	-	PCB AS	100-127V PUMP, DUAL VALVE	1	KR
	PRPSSW2Y01	-		220-240V PUMP, DUAL VALVE		
	PRPSSW2Y04	-		100-127V PUMP, SINGLE VALVE		
	PRPSSW2Y05	-		220-240V PUMP, SINGLE VALVE		
	PRPSSW2Y06	-		100-127V NON-PUMP, DUAL VALVE		
	PRPSSW2Y00	-		220-240V NON-PUMP, DUAL VALVE		
	PRPSSW2Y02	-		100-127V NON-PUMP,SINGLE VALVE		
	PRPSSW2Y07	-		220-240V NON-PUMP,SINGLE VALVE		
A36	PRPSSW3Y50	-	PCB AS	100-127V PUMP, DUAL VALVE	1	KW, KA
	PRPSSW3Y60	-		220-240V PUMP, DUAL VALVE		
	PRPSSW3Y70	-		100-127V PUMP, SINGLE VALVE		
	PRPSSW3Y80	-		220-240V PUMP, SINGLE VALVE		

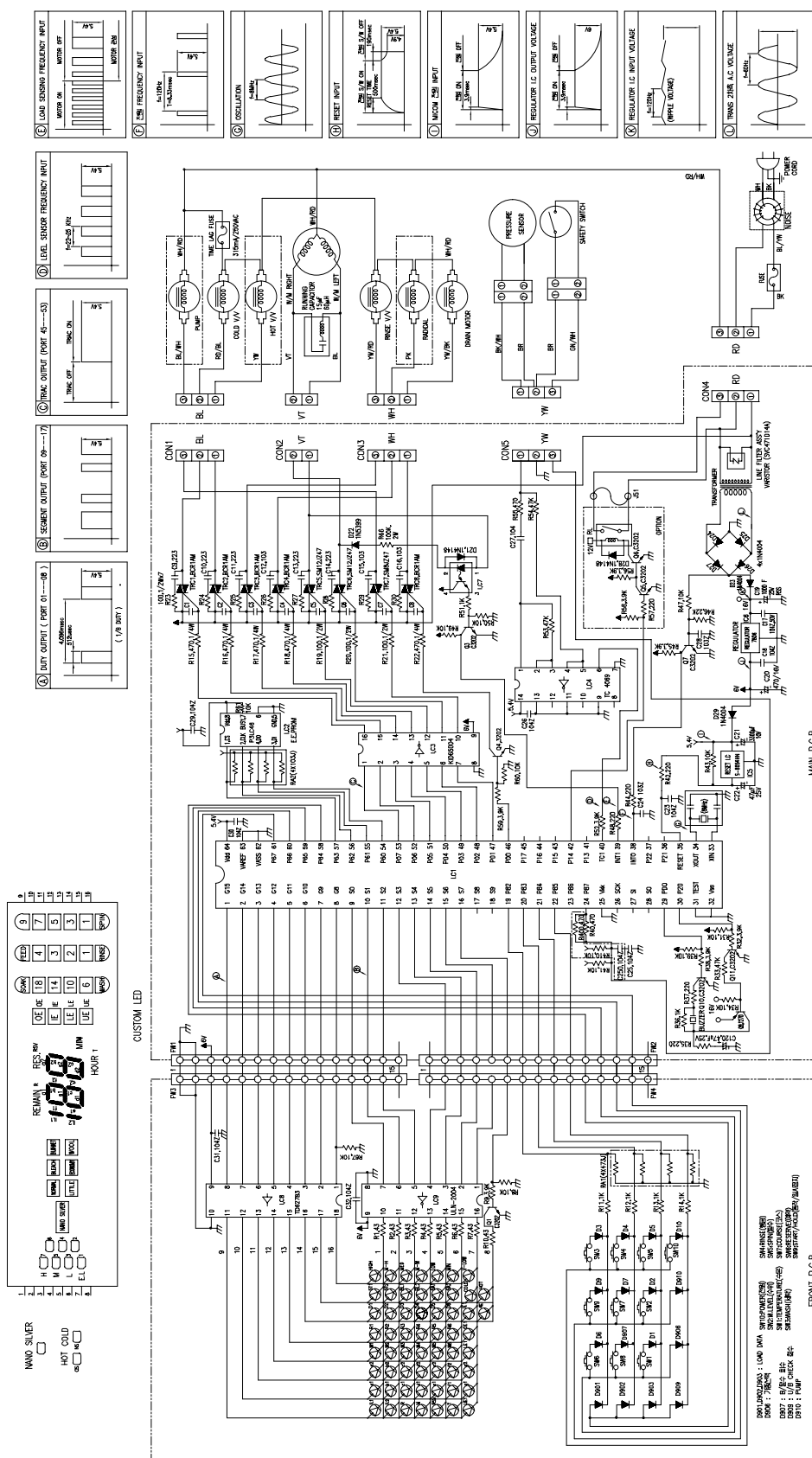
NO.	PARTS CODE	PARTS NAME	DESCRIPTION	Q'TY	REMARK
A36	PRPSSW3Y20	PCB AS	100-127V NON-PUMP, DUAL VALVE	1	KW, KA
	PRPSSW3Y00		220-240V NON-PUMP, DUAL VALVE		
	PRPSSW3Y30		100-127V NON-PUMP,SINGLE VALVE		
	PRPSSW3Y40		220-240V NON-PUMP,SINGLE VALVE		
A36	PRPSSW3Y90	PCB AS(260'S)	100-127V NON-PUMP,SINGLE VALVE	1	MEXICO
	PRPSSW3YA0		100-127V PUMP, DUAL VALVE		
A27	3612793020	HARNESS AS(260'S)	220-240V C/H NON-PUMP	1	N/RADICAL
	3612793010		220-240V C/H NON-PUMP		RADICAL
	3612793040		220-240V C ONLY NON-PUMP		N/RADICAL
	3612793030		220-240V C ONLY NON PUMP		RADICAL
	3612793090		220-240V C/H PUMP		N/RADICAL
	3612793085		220-240V C/H PUMP		RADICAL
	3612793060		100-127V C ONLY NON-PUMP		N/RADICAL
	3612793050		100-127V C ONLY NON-PUMP		RADICAL
	3612793070		100-127V C/H PUMP		N/RADICAL
	3612793080		100-127V C/H PUMP		RADICAL
A28	3619006310	SWITCH SAFETY AS	SF-030T TUBE	1	260'S
A29	3614802312	SENSOR PRESSURE	15μμ 2-PIN CDN2-D02N-1	1	
B01	3613213560	HOSE DRAIN O	1089CTE 950MM	1	NON PUMP
	3613226700	HOSE DRAIN O AS	LD-PE/EVA L=1600 PUMP		PUMP
B02	3614514600	PLATE UPPER	PP	1	
B03	3615302220	SUPPORT TUB BL	SPG 1.6T	1	
B04	3615302320	SUPPORT TUB BR	SPG 1.6T	1	
B05	3615302420	SUPPORT TUB FL	SPG 1.6T	1	
B06	3615302520	SUPPORT TUB FR	SPG 1.6T	1	
B07	7122501211	SCREW TAPPING	T2S TRS 5X12 MFZN	8	
B08	3611413600	COVER BACK	SPG 0.4T	1	
B09	3610808011	CABINET	PAINTING 0.6T	1	KA, KR, KC
	3610808020		PCM 0.6T	1	KW
B10	3617702300	LEG FIX	THERMAL PLASTIC ELASTOMER	2	
B11	3610310200	BASE U	PP	1	200'S
B12	3617702120	LEG ADJUST AS	SCREW 4X14	2	
B13	3612603300	HANDLE CABINET	PP	2	
B14	3610068700	HARNESS OUTER	50/0.18GREEN,ST710489-2	1	2WIRE POWER CODE
B15	3611402711	COVER UNDER	PP	1	OPTION
B16	3611405320	COVER PUMP	PP	1	
B17	7122501411	SCREW TAPPING	T2S TRS 5X14 MFZN	1	
B18	3611901531	FILTER AS	DWF-5590 DPNF E-TYPE	1	
B19	3618964550	UNIT DRAIN PUMP	VSF L-1250 #1806 EARTH L=410	1	220V/50HZ
	3618964530				230-240V/50HZ
	3618964560				220V/60HZ
	3618957410				110-127V/60HZ
B09	3610808012	CABINET	PAINTING 0.7T	1	260'S

NO.	PARTS CODE	PARTS NAME	DESCRIPTION	Q'TY	REMARK
B11	3610312200	BASE U	PP	1	KW, KA, KC
C01	3616105400	BALANCER AS	100'S, HIDDEN	1	
C02	3612202900	FRAME FALL	PP	1	
C03	3611904700	FILTER AS	100'S LINT FILTER AS	2	
C04	3618819700	TUB I	SUS 0.6T, 102KA	1	
C05	3612507210	GUIDE FILTER	HIDDEN FILTER (SUS 0.6T)	3	
C06	3616008600	SPECIAL BOLT	SUS	6	
C07	3616008700	SPECIAL NUT	SUS	6	
C08	3611906000	FILTER FRAME	ABS, NANO FILTER	1	
C09	3611905800	FILTER BODY	PP	1	
C10	3611905900	FILTER LINT	ABS + SUS II _i INSERT	1	
C11	3611906100	FILTER FIX	ABS	1	
C12	3618815205	TUB U	NANO SILVER, 1098	1	KR
C01	3616104000	BALANCER AS	DWF-1094	1	
C03	3611903100	FILTER AS	DWF-1094, PP	2	
C04	3618806900	TUB I	SUS430D	1	
C05	3612504100	GUIDE FILTER	DWF-1094	2	
C12	3618807002	TUB U	94'S +M/B +RIB	1	
C13	3616003700	SPECIAL SCREW	SUS 5.5X16	12	
C14	3616003700	SPECIAL SCREW	SUS 5.5X16	12	
C15	3617201200	FLANGE TUB	10KG 3-FOOT	1	200'S
C12	3618815504	TUB U	NANO SILVER	1	260'S
C15	3617200200	FLANGE TUB	ADC 12	1	NANO SILVER
C16	3616007000	SPECIAL SCREW	SCM24H 6.5X24	6	260'S : 12EA
C17	4507D83080	SPECIAL NUT	SUS 304	1	
C18	3616003720	SPECIAL SCREW	SUS 6X26.5	1	
C19	3619707701	PULSATOR	NANO SILVER, 102KA	1	NANO SILVER: KW,KA,KC
	3619707700		DWF-100K, PP, IMPELLER	1	KR
C20	3610915800	CAP PULSATOR	ABS, 104KR	1	IMPELLER
C21	3619707702	PULSATOR	105KWD, SUS	1	KWD
C22	3610916000	CAP PULSATOR	102KWD, ABS	1	STAINLESS
D01	3611417700	COVER TUB	PP 100M	1	200'S
D02	3618807100	TUB O	PP 1098	1	
D04	3619805400	SUSPENSION AS(A)	100C'S ROD=592 SPR=102	2	200'S
D05	3619805500	SUSPENSION AS(B)	100C'S ROD=592 SPR=112	2	
D06	3613208901	HOSE OVERFLOW	PELD, L=280MM	1	
D07	3615408400	VALVE DRAIN AS	1098'S, VE TYPE	1	
D08	3613218500	HOSE DRAIN I AS	LDPE+EVA L=219.5	1	
D09	3610387400	BASE	SECEN 2.0T	1	
D10	3616007000	SPECIAL SCREW	SCM24H,6.5X24	14	
D11	36189H1R50	MOTOR SYNCHRONOUS	220-240V/5,60HZ KD-KW22	1	
	36196L1R50		220/50-60 SV-MX7T06D	1	
	36189L1R50		100-130V, KD-KW11LD	1	MEXICO

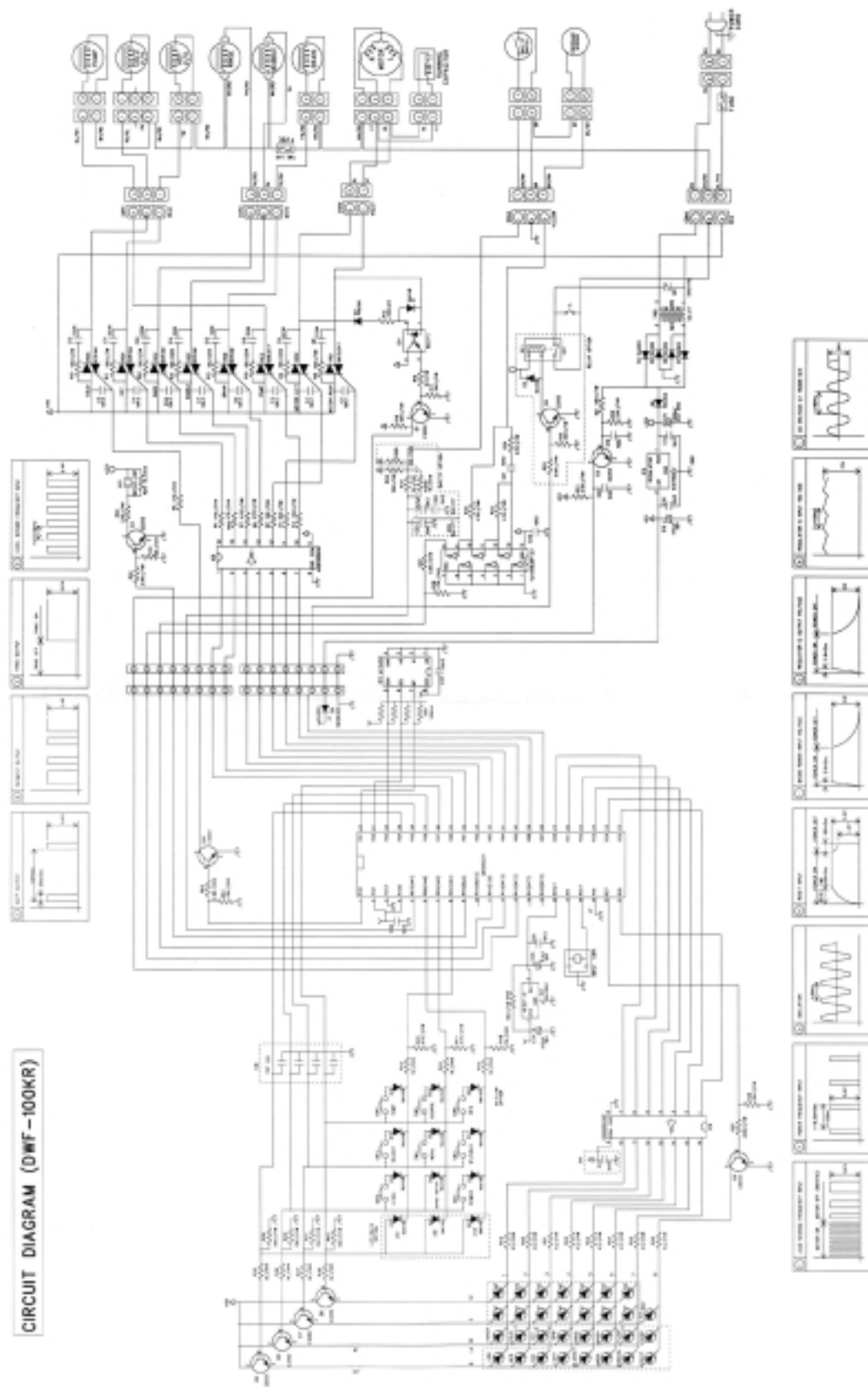
NO.	PARTS CODE	PARTS NAME	DESCRIPTION	Q'TY	REMARK
D11	36196T1R50	MOTOR SYNCHRONOUS	100-110/50,60 SY-HJ7106D	1	
D12	3617309640	GEAR MECHANISM	GM-1300-KS6P0	1	200'S
D13	7341801511	BOLT HEX	6B-1 8X15 MFZN	4	
D14	3618301300	PROTECTOR GEAR	SBHG 1.6T	1	
D15	3616590220	BELT V	M20.5, AGING	1	
	3616590230		M21, AGING		
D16	3964321264	MOTOR CONDENSER	W1S50UA018 220V/60HZ	1	
	3964821120		W1S50CA011 110-127V/60HZ		MEXICO
	3964221250		W1D50CA013 110-127V/60HZ		200'S
	3964821330		W1D50JA011 120-127V/60HZ		
	3964510431		W1S50VA011 220-240V/50HZ		
D17	3611502700	CUSHION DOWN	POM(8MM)	2	
D18	3612757020	EARTH INNER	L ID=4.3, R ID=8.4 L=560	1	
D19	7650802528	BOLT HEX	6B-1 8X25 PW(3X28) MFZN	2	260'S : 4EA
D20	3610402931	BODY BUBBLE AS	104KR, 2700MM	1	200'S
D22	3618432000	PULLEY MOTOR AS	M-TYPE DS=10 DP=48.5 60HZ	1	200'S
	3618431900		M-TYPE DS=10 DP=53 50HZ	1	
D21	3618401400		ADC-12 DS=12 DP=48.5 60HZ	1	
	3618401420		ADC-12 DS=12 DP=53 50HZ	1	
D01	3611413900	COVER TUB	PP	1	260'S
D03	3613265900	HOSE BUBBLE	ID=4.0, L=1150MM	1	
D05	3619803800	SUSPENSION AS(F)	DWF-1398 YELLOW FRONT	2	
D04	3619803900	SUSPENSION AS(B)	DWF-1398 BLACK BACK	2	
D12	3617309640	GEAR MECHANISM	GM-1300-KS6P2	1	
D16	3618961300	UNIT MOTOR AS	W1N44EB020 110V/60HZ	1	
D22	3618403510	PULLEY MOTOR AS	ADC-12 M-TYPE DS12 DP52.5	1	

Circuit Diagram [100KW, KA]

CIRCUIT DIAGRAM(DWF-102KA)



■ Circuit Diagram [100KC, KR]



S/M No. :

DAEWOO

DAEWOO ELECTRONICS CORP.

686, AHYEON-DONG MAPO-GU SEOUL, KOREA

C.P.O. BOX 8003 SEOUL, KOREA

TELEX: DWELEC K28177-8

CABLE: "DAEWOOELEC"

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